

ATOM 1107	CG	LYS A	78	155.513	-6.854	6.809	1.00	0.00
ATOM 1108	CD	LYS A	78	155.303	-7.030	8.304	1.00	0.00
ATOM 1109	CE	LYS A	78	154.065	-7.862	8.598	1.00	0.00
ATOM 1110	NZ	LYS A	78	153.334	-7.367	9.797	1.00	0.00
ATOM 1111	H	LYS A	78	157.206	-4.572	4.548	1.00	0.00
ATOM 1112	HA	LYS A	78	154.695	-6.012	4.274	1.00	0.00
ATOM 1113	1HB	LYS A	78	155.507	-4.732	6.890	1.00	0.00
ATOM 1114	2HB	LYS A	78	153.942	-5.453	6.537	1.00	0.00
ATOM 1115	1HG	LYS A	78	154.984	-7.636	6.285	1.00	0.00
ATOM 1116	2HG	LYS A	78	156.570	-6.924	6.592	1.00	0.00
ATOM 1117	1HD	LYS A	78	156.165	-7.526	8.723	1.00	0.00
ATOM 1118	2HD	LYS A	78	155.188	-6.057	8.759	1.00	0.00
ATOM 1119	1HE	LYS A	78	153.407	-7.820	7.743	1.00	0.00
ATOM 1120	2HE	LYS A	78	154.367	-8.886	8.768	1.00	0.00
ATOM 1121	1HZ	LYS A	78	152.990	-6.399	9.630	1.00	0.00
ATOM 1122	2HZ	LYS A	78	153.965	-7.361	10.623	1.00	0.00
ATOM 1123	3HZ	LYS A	78	152.521	-7.982	9.999	1.00	0.00
ATOM 1124	N	ALA A	79	155.156	-3.369	3.318	1.00	0.00
ATOM 1125	CA	ALA A	79	154.722	-2.064	2.836	1.00	0.00
ATOM 1126	C	ALA A	79	154.543	-2.070	1.322	1.00	0.00
ATOM 1127	O	ALA A	79	155.517	-1.992	0.571	1.00	0.00
ATOM 1128	CB	ALA A	79	155.720	-0.992	3.247	1.00	0.00
ATOM 1129	H	ALA A	79	155.811	-3.879	2.796	1.00	0.00
ATOM 1130	HA	ALA A	79	153.774	-1.837	3.299	1.00	0.00
ATOM 1131	1HB	ALA A	79	155.219	-0.036	3.300	1.00	0.00
ATOM 1132	2HB	ALA A	79	156.515	-0.941	2.518	1.00	0.00
ATOM 1133	3HB	ALA A	79	156.133	-1.237	4.214	1.00	0.00
ATOM 1134	N	LEU A	80	153.294	-2.162	0.878	1.00	0.00
ATOM 1135	CA	LEU A	80	152.988	-2.178	-0.548	1.00	0.00

ATOM 1136	C	LEU A	80	152.143	-0.968	-0.936	1.00	0.00
ATOM 1137	O	LEU A	80	150.992	-0.842	-0.519	1.00	0.00
ATOM 1138	CB	LEU A	80	152.252	-3.467	-0.919	1.00	0.00
ATOM 1139	CG	LEU A	80	151.835	-3.574	-2.387	1.00	0.00
ATOM 1140	CD1	LEU A	80	153.048	-3.819	-3.270	1.00	0.00
ATOM 1141	CD2	LEU A	80	150.809	-4.683	-2.568	1.00	0.00
ATOM 1142	H	LEU A	80	152.561	-2.220	1.525	1.00	0.00
ATOM 1143	HA	LEU A	80	153.922	-2.138	-1.088	1.00	0.00
ATOM 1144	1HB	LEU A	80	152.896	-4.303	-0.687	1.00	0.00
ATOM 1145	2HB	LEU A	80	151.364	-3.538	-0.309	1.00	0.00
ATOM 1146	HG	LEU A	80	151.381	-2.644	-2.693	1.00	0.00
ATOM 1147	1HD1	LEU A	80	153.457	-2.872	-3.590	1.00	0.00
ATOM 1148	2HD1	LEU A	80	152.753	-4.394	-4.136	1.00	0.00
ATOM 1149	3HD1	LEU A	80	153.796	-4.364	-2.713	1.00	0.00
ATOM 1150	1HD2	LEU A	80	150.935	-5.134	-3.541	1.00	0.00
ATOM 1151	2HD2	LEU A	80	149.814	-4.270	-2.488	1.00	0.00
ATOM 1152	3HD2	LEU A	80	150.950	-5.432	-1.803	1.00	0.00
ATOM 1153	N	PHE A	81	152.723	-0.082	-1.739	1.00	0.00
ATOM 1154	CA	PHE A	81	152.024	1.117	-2.185	1.00	0.00
ATOM 1155	C	PHE A	81	151.158	0.819	-3.405	1.00	0.00
ATOM 1156	O	PHE A	81	151.569	0.089	-4.307	1.00	0.00
ATOM 1157	CB	PHE A	81	153.027	2.224	-2.515	1.00	0.00
ATOM 1158	CG	PHE A	81	153.688	2.816	-1.303	1.00	0.00
ATOM 1159	CD1	PHE A	81	153.308	4.060	-0.828	1.00	0.00
ATOM 1160	CD2	PHE A	81	154.690	2.126	-0.639	1.00	0.00
ATOM 1161	CE1	PHE A	81	153.915	4.607	0.287	1.00	0.00
ATOM 1162	CE2	PHE A	81	155.300	2.668	0.477	1.00	0.00
ATOM 1163	CZ	PHE A	81	154.912	3.909	0.941	1.00	0.00
ATOM 1164	H	PHE A	81	153.643	-0.239	-2.039	1.00	0.00

ATOM 1165	HA	PHE A	81	151.388	1.449	-1.379	1.00	0.00
ATOM 1166	1HB	PHE A	81	153.800	1.822	-3.151	1.00	0.00
ATOM 1167	2HB	PHE A	81	152.515	3.020	-3.037	1.00	0.00
ATOM 1168	HD1	PHE A	81	152.527	4.606	-1.338	1.00	0.00
ATOM 1169	HD2	PHE A	81	154.995	1.156	-1.000	1.00	0.00
ATOM 1170	HE1	PHE A	81	153.609	5.579	0.647	1.00	0.00
ATOM 1171	HE2	PHE A	81	156.080	2.121	0.985	1.00	0.00
ATOM 1172	HZ	PHE A	81	155.388	4.335	1.812	1.00	0.00
ATOM 1173	N	VAL A	82	149.959	1.389	-3.427	1.00	0.00
ATOM 1174	CA	VAL A	82	149.035	1.184	-4.535	1.00	0.00
ATOM 1175	C	VAL A	82	148.156	2.412	-4.753	1.00	0.00
ATOM 1176	O	VAL A	82	148.101	3.306	-3.909	1.00	0.00
ATOM 1177	CB	VAL A	82	148.134	-0.041	-4.297	1.00	0.00
ATOM 1178	CG1	VAL A	82	148.953	-1.322	-4.333	1.00	0.00
ATOM 1179	CG2	VAL A	82	147.392	0.090	-2.976	1.00	0.00
ATOM 1180	H	VAL A	82	149.687	1.962	-2.677	1.00	0.00
ATOM 1181	HA	VAL A	82	149.619	1.009	-5.427	1.00	0.00
ATOM 1182	HB	VAL A	82	147.404	-0.087	-5.093	1.00	0.00
ATOM 1183	1HG1	VAL A	82	148.303	-2.170	-4.174	1.00	0.00
ATOM 1184	2HG1	VAL A	82	149.702	-1.292	-3.555	1.00	0.00
ATOM 1185	3HG1	VAL A	82	149.436	-1.415	-5.295	1.00	0.00
ATOM 1186	1HG2	VAL A	82	147.988	-0.338	-2.185	1.00	0.00
ATOM 1187	2HG2	VAL A	82	146.449	-0.432	-3.039	1.00	0.00
ATOM 1188	3HG2	VAL A	82	147.212	1.134	-2.767	1.00	0.00
ATOM 1189	N	LYS A	83	147.471	2.448	-5.891	1.00	0.00
ATOM 1190	CA	LYS A	83	146.594	3.565	-6.221	1.00	0.00
ATOM 1191	C	LYS A	83	145.381	3.596	-5.299	1.00	0.00
ATOM 1192	O	LYS A	83	144.624	2.629	-5.217	1.00	0.00
ATOM 1193	CB	LYS A	83	146.139	3.470	-7.679	1.00	0.00

ATOM 1194	CG	LYS A	83	147.278	3.584	-8.680	1.00	0.00
ATOM 1195	CD	LYS A	83	146.839	3.163	-10.073	1.00	0.00
ATOM 1196	CE	LYS A	83	147.457	4.048	-11.143	1.00	0.00
ATOM 1197	NZ	LYS A	83	147.818	3.274	-12.363	1.00	0.00
ATOM 1198	H	LYS A	83	147.557	1.704	-6.524	1.00	0.00
ATOM 1199	HA	LYS A	83	147.155	4.478	-6.087	1.00	0.00
ATOM 1200	1HB	LYS A	83	145.649	2.520	-7.830	1.00	0.00
ATOM 1201	2HB	LYS A	83	145.434	4.265	-7.876	1.00	0.00
ATOM 1202	1HG	LYS A	83	147.612	4.610	-8.714	1.00	0.00
ATOM 1203	2HG	LYS A	83	148.090	2.948	-8.359	1.00	0.00
ATOM 1204	1HD	LYS A	83	147.145	2.142	-10.243	1.00	0.00
ATOM 1205	2HD	LYS A	83	145.763	3.233	-10.137	1.00	0.00
ATOM 1206	1HE	LYS A	83	146.748	4.815	-11.411	1.00	0.00
ATOM 1207	2HE	LYS A	83	148.348	4.506	-10.741	1.00	0.00
ATOM 1208	1HZ	LYS A	83	148.624	3.721	-12.844	1.00	0.00
ATOM 1209	2HZ	LYS A	83	147.011	3.243	-13.018	1.00	0.00
ATOM 1210	3HZ	LYS A	83	148.078	2.300	-12.105	1.00	0.00
ATOM 1211	N	LEU A	84	145.203	4.715	-4.606	1.00	0.00
ATOM 1212	CA	LEU A	84	144.082	4.880	-3.689	1.00	0.00
ATOM 1213	C	LEU A	84	142.752	4.717	-4.418	1.00	0.00
ATOM 1214	O	LEU A	84	141.808	4.136	-3.885	1.00	0.00
ATOM 1215	CB	LEU A	84	144.149	6.254	-3.018	1.00	0.00
ATOM 1216	CG	LEU A	84	142.966	6.592	-2.109	1.00	0.00
ATOM 1217	CD1	LEU A	84	143.161	5.981	-0.730	1.00	0.00
ATOM 1218	CD2	LEU A	84	142.791	8.100	-2.004	1.00	0.00
ATOM 1219	H	LEU A	84	145.841	5.450	-4.716	1.00	0.00
ATOM 1220	HA	LEU A	84	144.160	4.115	-2.931	1.00	0.00
ATOM 1221	1HB	LEU A	84	145.054	6.300	-2.429	1.00	0.00
ATOM 1222	2HB	LEU A	84	144.206	7.004	-3.793	1.00	0.00

ATOM 1223	HG	LEU A	84	142.063	6.179	-2.533	1.00	0.00
ATOM 1224	1HD1	LEU A	84	142.445	6.406	-0.043	1.00	0.00
ATOM 1225	2HD1	LEU A	84	144.162	6.188	-0.382	1.00	0.00
ATOM 1226	3HD1	LEU A	84	143.014	4.912	-0.787	1.00	0.00
ATOM 1227	1HD2	LEU A	84	142.772	8.530	-2.995	1.00	0.00
ATOM 1228	2HD2	LEU A	84	143.614	8.521	-1.445	1.00	0.00
ATOM 1229	3HD2	LEU A	84	141.863	8.321	-1.498	1.00	0.00
ATOM 1230	N	LYS A	85	142.688	5.234	-5.641	1.00	0.00
ATOM 1231	CA	LYS A	85	141.474	5.146	-6.444	1.00	0.00
ATOM 1232	C	LYS A	85	141.139	3.693	-6.773	1.00	0.00
ATOM 1233	O	LYS A	85	139.984	3.356	-7.028	1.00	0.00
ATOM 1234	CB	LYS A	85	141.633	5.950	-7.735	1.00	0.00
ATOM 1235	CG	LYS A	85	142.797	5.492	-8.599	1.00	0.00
ATOM 1236	CD	LYS A	85	143.178	6.548	-9.624	1.00	0.00
ATOM 1237	CE	LYS A	85	144.685	6.620	-9.814	1.00	0.00
ATOM 1238	NZ	LYS A	85	145.077	7.728	-10.729	1.00	0.00
ATOM 1239	H	LYS A	85	143.474	5.685	-6.012	1.00	0.00
ATOM 1240	HA	LYS A	85	140.664	5.566	-5.867	1.00	0.00
ATOM 1241	1HB	LYS A	85	140.726	5.860	-8.316	1.00	0.00
ATOM 1242	2HB	LYS A	85	141.786	6.989	-7.483	1.00	0.00
ATOM 1243	1HG	LYS A	85	143.648	5.297	-7.964	1.00	0.00
ATOM 1244	2HG	LYS A	85	142.515	4.586	-9.115	1.00	0.00
ATOM 1245	1HD	LYS A	85	142.718	6.301	-10.569	1.00	0.00
ATOM 1246	2HD	LYS A	85	142.820	7.509	-9.287	1.00	0.00
ATOM 1247	1HE	LYS A	85	145.149	6.779	-8.852	1.00	0.00
ATOM 1248	2HE	LYS A	85	145.028	5.683	-10.228	1.00	0.00
ATOM 1249	1HZ	LYS A	85	146.064	8.004	-10.553	1.00	0.00
ATOM 1250	2HZ	LYS A	85	144.465	8.553	-10.574	1.00	0.00
ATOM 1251	3HZ	LYS A	85	144.984	7.423	-11.719	1.00	0.00

ATOM 1252	N	SER A	86	142.158	2.837	-6.765	1.00	0.00
ATOM 1253	CA	SER A	86	141.968	1.423	-7.064	1.00	0.00
ATOM 1254	C	SER A	86	141.945	0.594	-5.782	1.00	0.00
ATOM 1255	O	SER A	86	142.403	-0.548	-5.762	1.00	0.00
ATOM 1256	CB	SER A	86	143.077	0.922	-7.990	1.00	0.00
ATOM 1257	OG	SER A	86	143.061	1.613	-9.227	1.00	0.00
ATOM 1258	H	SER A	86	143.057	3.164	-6.555	1.00	0.00
ATOM 1259	HA	SER A	86	141.017	1.314	-7.563	1.00	0.00
ATOM 1260	1HB	SER A	86	144.035	1.078	-7.518	1.00	0.00
ATOM 1261	2HB	SER A	86	142.936	-0.133	-8.178	1.00	0.00
ATOM 1262	HG	SER A	86	142.156	1.684	-9.542	1.00	0.00
ATOM 1263	N	CYS A	87	141.410	1.178	-4.715	1.00	0.00
ATOM 1264	CA	CYS A	87	141.328	0.494	-3.430	1.00	0.00
ATOM 1265	C	CYS A	87	139.877	0.215	-3.053	1.00	0.00
ATOM 1266	O	CYS A	87	138.984	1.005	-3.360	1.00	0.00
ATOM 1267	CB	CYS A	87	141.999	1.331	-2.340	1.00	0.00
ATOM 1268	SG	CYS A	87	143.804	1.366	-2.440	1.00	0.00
ATOM 1269	H	CYS A	87	141.062	2.090	-4.794	1.00	0.00
ATOM 1270	HA	CYS A	87	141.851	-0.446	-3.521	1.00	0.00
ATOM 1271	1HB	CYS A	87	141.648	2.350	-2.411	1.00	0.00
ATOM 1272	2HB	CYS A	87	141.730	0.931	-1.372	1.00	0.00
ATOM 1273	HG	CYS A	87	144.150	1.419	-1.547	1.00	0.00
ATOM 1274	N	ARG A	88	139.650	-0.912	-2.386	1.00	0.00
ATOM 1275	CA	ARG A	88	138.306	-1.294	-1.967	1.00	0.00
ATOM 1276	C	ARG A	88	138.213	-1.371	-0.443	1.00	0.00
ATOM 1277	O	ARG A	88	139.151	-1.815	0.220	1.00	0.00
ATOM 1278	CB	ARG A	88	137.922	-2.641	-2.582	1.00	0.00
ATOM 1279	CG	ARG A	88	137.196	-2.517	-3.912	1.00	0.00
ATOM 1280	CD	ARG A	88	135.691	-2.650	-3.741	1.00	0.00

ATOM 1281	NE	ARG A	88	135.014	-2.887	-5.014	1.00	0.00
ATOM 1282	CZ	ARG A	88	135.048	-4.047	-5.667	1.00	0.00
ATOM 1283	NH1	ARG A	88	135.722	-5.076	-5.171	1.00	0.00
ATOM 1284	NH2	ARG A	88	134.404	-4.178	-6.818	1.00	0.00
ATOM 1285	H	ARG A	88	140.403	-1.499	-2.170	1.00	0.00
ATOM 1286	HA	ARG A	88	137.622	-0.538	-2.321	1.00	0.00
ATOM 1287	1HB	ARG A	88	138.819	-3.221	-2.738	1.00	0.00
ATOM 1288	2HB	ARG A	88	137.278	-3.168	-1.893	1.00	0.00
ATOM 1289	1HG	ARG A	88	137.415	-1.551	-4.342	1.00	0.00
ATOM 1290	2HG	ARG A	88	137.545	-3.296	-4.575	1.00	0.00
ATOM 1291	1HD	ARG A	88	135.489	-3.478	-3.078	1.00	0.00
ATOM 1292	2HD	ARG A	88	135.310	-1.739	-3.305	1.00	0.00
ATOM 1293	HE	ARG A	88	134.509	-2.143	-5.402	1.00	0.00
ATOM 1294	1HH1	ARG A	88	136.210	-4.985	-4.303	1.00	0.00
ATOM 1295	2HH1	ARG A	88	135.743	-5.945	-5.665	1.00	0.00
ATOM 1296	1HH2	ARG A	88	133.894	-3.405	-7.196	1.00	0.00
ATOM 1297	2HH2	ARG A	88	134.428	-5.048	-7.309	1.00	0.00
ATOM 1298	N	PRO A	89	137.078	-0.939	0.135	1.00	0.00
ATOM 1299	CA	PRO A	89	136.874	-0.966	1.588	1.00	0.00
ATOM 1300	C	PRO A	89	137.102	-2.352	2.179	1.00	0.00
ATOM 1301	O	PRO A	89	136.511	-3.334	1.728	1.00	0.00
ATOM 1302	CB	PRO A	89	135.410	-0.549	1.755	1.00	0.00
ATOM 1303	CG	PRO A	89	135.090	0.225	0.523	1.00	0.00
ATOM 1304	CD	PRO A	89	135.907	-0.394	-0.577	1.00	0.00
ATOM 1305	HA	PRO A	89	137.513	-0.254	2.089	1.00	0.00
ATOM 1306	1HB	PRO A	89	134.791	-1.430	1.841	1.00	0.00
ATOM 1307	2HB	PRO A	89	135.305	0.060	2.641	1.00	0.00
ATOM 1308	1HG	PRO A	89	134.037	0.140	0.301	1.00	0.00
ATOM 1309	2HG	PRO A	89	135.366	1.260	0.658	1.00	0.00

ATOM 1310	1HD	PRO A	89	135.351	-1.180	-1.064	1.00	0.00
ATOM 1311	2HD	PRO A	89	136.206	0.358	-1.292	1.00	0.00
ATOM 1312	N	ASP A	90	137.960	-2.426	3.190	1.00	0.00
ATOM 1313	CA	ASP A	90	138.264	-3.694	3.844	1.00	0.00
ATOM 1314	C	ASP A	90	137.542	-3.802	5.183	1.00	0.00
ATOM 1315	O	ASP A	90	137.962	-3.209	6.176	1.00	0.00
ATOM 1316	CB	ASP A	90	139.773	-3.835	4.052	1.00	0.00
ATOM 1317	CG	ASP A	90	140.201	-5.279	4.220	1.00	0.00
ATOM 1318	OD1	ASP A	90	140.849	-5.592	5.241	1.00	0.00
ATOM 1319	OD2	ASP A	90	139.886	-6.098	3.331	1.00	0.00
ATOM 1320	H	ASP A	90	138.399	-1.609	3.505	1.00	0.00
ATOM 1321	HA	ASP A	90	137.923	-4.488	3.199	1.00	0.00
ATOM 1322	1HB	ASP A	90	140.288	-3.423	3.197	1.00	0.00
ATOM 1323	2HB	ASP A	90	140.061	-3.287	4.937	1.00	0.00
ATOM 1324	N	SER A	91	136.454	-4.564	5.202	1.00	0.00
ATOM 1325	CA	SER A	91	135.673	-4.751	6.420	1.00	0.00
ATOM 1326	C	SER A	91	136.034	-6.066	7.101	1.00	0.00
ATOM 1327	O	SER A	91	135.196	-6.689	7.753	1.00	0.00
ATOM 1328	CB	SER A	91	134.177	-4.723	6.101	1.00	0.00
ATOM 1329	OG	SER A	91	133.431	-4.222	7.197	1.00	0.00
ATOM 1330	H	SER A	91	136.168	-5.012	4.378	1.00	0.00
ATOM 1331	HA	SER A	91	135.904	-3.937	7.090	1.00	0.00
ATOM 1332	1HB	SER A	91	134.005	-4.088	5.245	1.00	0.00
ATOM 1333	2HB	SER A	91	133.841	-5.725	5.881	1.00	0.00
ATOM 1334	HG	SER A	91	133.583	-3.278	7.284	1.00	0.00
ATOM 1335	N	ARG A	92	137.285	-6.486	6.944	1.00	0.00
ATOM 1336	CA	ARG A	92	137.756	-7.728	7.544	1.00	0.00
ATOM 1337	C	ARG A	92	137.792	-7.619	9.064	1.00	0.00
ATOM 1338	O	ARG A	92	137.609	-8.610	9.772	1.00	0.00

ATOM 1339	CB	ARG A	92	139.148	-8.079	7.013	1.00	0.00
ATOM 1340	CG	ARG A	92	139.143	-8.589	5.580	1.00	0.00
ATOM 1341	CD	ARG A	92	139.469	-10.073	5.512	1.00	0.00
ATOM 1342	NE	ARG A	92	138.336	-10.902	5.917	1.00	0.00
ATOM 1343	CZ	ARG A	92	138.226	-12.197	5.630	1.00	0.00
ATOM 1344	NH1	ARG A	92	139.176	-12.813	4.938	1.00	0.00
ATOM 1345	NH2	ARG A	92	137.162	-12.877	6.034	1.00	0.00
ATOM 1346	H	ARG A	92	137.907	-5.946	6.412	1.00	0.00
ATOM 1347	HA	ARG A	92	137.067	-8.511	7.267	1.00	0.00
ATOM 1348	1HB	ARG A	92	139.770	-7.197	7.057	1.00	0.00
ATOM 1349	2HB	ARG A	92	139.579	-8.843	7.644	1.00	0.00
ATOM 1350	1HG	ARG A	92	138.163	-8.427	5.155	1.00	0.00
ATOM 1351	2HG	ARG A	92	139.879	-8.040	5.012	1.00	0.00
ATOM 1352	1HD	ARG A	92	139.739	-10.322	4.497	1.00	0.00
ATOM 1353	2HD	ARG A	92	140.303	-10.275	6.167	1.00	0.00
ATOM 1354	HE	ARG A	92	137.620	-10.471	6.430	1.00	0.00
ATOM 1355	1HH1	ARG A	92	139.980	-12.307	4.629	1.00	0.00
ATOM 1356	2HH1	ARG A	92	139.088	-13.787	4.725	1.00	0.00
ATOM 1357	1HH2	ARG A	92	136.443	-12.418	6.556	1.00	0.00
ATOM 1358	2HH2	ARG A	92	137.079	-13.850	5.819	1.00	0.00
ATOM 1359	N	PHE A	93	138.031	-6.410	9.561	1.00	0.00
ATOM 1360	CA	PHE A	93	138.092	-6.172	10.999	1.00	0.00
ATOM 1361	C	PHE A	93	136.976	-5.233	11.447	1.00	0.00
ATOM 1362	O	PHE A	93	137.114	-4.519	12.440	1.00	0.00
ATOM 1363	CB	PHE A	93	139.451	-5.583	11.381	1.00	0.00
ATOM 1364	CG	PHE A	93	140.586	-6.559	11.253	1.00	0.00
ATOM 1365	CD1	PHE A	93	140.898	-7.122	10.026	1.00	0.00
ATOM 1366	CD2	PHE A	93	141.340	-6.914	12.361	1.00	0.00
ATOM 1367	CE1	PHE A	93	141.942	-8.020	9.905	1.00	0.00

ATOM 1368	CE2	PHE A	93	142.385	-7.811	12.246	1.00	0.00
ATOM 1369	CZ	PHE A	93	142.686	-8.365	11.017	1.00	0.00
ATOM 1370	H	PHE A	93	138.170	-5.659	8.947	1.00	0.00
ATOM 1371	HA	PHE A	93	137.968	-7.122	11.497	1.00	0.00
ATOM 1372	1HB	PHE A	93	139.664	-4.741	10.740	1.00	0.00
ATOM 1373	2HB	PHE A	93	139.413	-5.248	12.407	1.00	0.00
ATOM 1374	HD1	PHE A	93	140.317	-6.853	9.156	1.00	0.00
ATOM 1375	HD2	PHE A	93	141.105	-6.482	13.322	1.00	0.00
ATOM 1376	HE1	PHE A	93	142.175	-8.451	8.944	1.00	0.00
ATOM 1377	HE2	PHE A	93	142.965	-8.079	13.117	1.00	0.00
ATOM 1378	HZ	PHE A	93	143.502	-9.066	10.925	1.00	0.00
ATOM 1379	N	ALA A	94	135.869	-5.238	10.710	1.00	0.00
ATOM 1380	CA	ALA A	94	134.732	-4.386	11.038	1.00	0.00
ATOM 1381	C	ALA A	94	133.628	-5.181	11.726	1.00	0.00
ATOM 1382	O	ALA A	94	133.159	-6.193	11.204	1.00	0.00
ATOM 1383	CB	ALA A	94	134.197	-3.716	9.780	1.00	0.00
ATOM 1384	H	ALA A	94	135.814	-5.829	9.930	1.00	0.00
ATOM 1385	HA	ALA A	94	135.077	-3.614	11.709	1.00	0.00
ATOM 1386	1HB	ALA A	94	133.322	-4.246	9.434	1.00	0.00
ATOM 1387	2HB	ALA A	94	134.956	-3.732	9.013	1.00	0.00
ATOM 1388	3HB	ALA A	94	133.932	-2.693	10.004	1.00	0.00
ATOM 1389	N	SER A	95	133.216	-4.717	12.902	1.00	0.00
ATOM 1390	CA	SER A	95	132.167	-5.384	13.663	1.00	0.00
ATOM 1391	C	SER A	95	130.804	-4.767	13.363	1.00	0.00
ATOM 1392	O	SER A	95	130.659	-3.546	13.331	1.00	0.00
ATOM 1393	CB	SER A	95	132.460	-5.298	15.162	1.00	0.00
ATOM 1394	OG	SER A	95	133.403	-6.280	15.554	1.00	0.00
ATOM 1395	H	SER A	95	133.629	-3.905	13.266	1.00	0.00
ATOM 1396	HA	SER A	95	132.152	-6.422	13.366	1.00	0.00

ATOM 1397	1HB	SER A	95	132.860	-4.322	15.392	1.00	0.00
ATOM 1398	2HB	SER A	95	131.546	-5.452	15.714	1.00	0.00
ATOM 1399	HG	SER A	95	132.941	-7.050	15.894	1.00	0.00
ATOM 1400	N	LEU A	96	129.809	-5.620	13.143	1.00	0.00
ATOM 1401	CA	LEU A	96	128.459	-5.157	12.847	1.00	0.00
ATOM 1402	C	LEU A	96	127.448	-6.288	13.000	1.00	0.00
ATOM 1403	O	LEU A	96	127.601	-7.357	12.405	1.00	0.00
ATOM 1404	CB	LEU A	96	128.394	-4.589	11.428	1.00	0.00
ATOM 1405	CG	LEU A	96	127.019	-4.076	10.997	1.00	0.00
ATOM 1406	CD1	LEU A	96	126.635	-2.843	11.801	1.00	0.00
ATOM 1407	CD2	LEU A	96	127.009	-3.769	9.507	1.00	0.00
ATOM 1408	H	LEU A	96	129.987	-6.583	13.183	1.00	0.00
ATOM 1409	HA	LEU A	96	128.215	-4.375	13.549	1.00	0.00
ATOM 1410	1HB	LEU A	96	129.099	-3.773	11.358	1.00	0.00
ATOM 1411	2HB	LEU A	96	128.696	-5.363	10.738	1.00	0.00
ATOM 1412	HG	LEU A	96	126.281	-4.841	11.187	1.00	0.00
ATOM 1413	1HD1	LEU A	96	126.375	-3.136	12.807	1.00	0.00
ATOM 1414	2HD1	LEU A	96	125.788	-2.360	11.336	1.00	0.00
ATOM 1415	3HD1	LEU A	96	127.468	-2.157	11.829	1.00	0.00
ATOM 1416	1HD2	LEU A	96	127.887	-3.195	9.252	1.00	0.00
ATOM 1417	2HD2	LEU A	96	126.124	-3.200	9.263	1.00	0.00
ATOM 1418	3HD2	LEU A	96	127.008	-4.693	8.949	1.00	0.00
ATOM 1419	N	GLN A	97	126.414	-6.047	13.800	1.00	0.00
ATOM 1420	CA	GLN A	97	125.375	-7.044	14.031	1.00	0.00
ATOM 1421	C	GLN A	97	124.046	-6.595	13.432	1.00	0.00
ATOM 1422	O	GLN A	97	123.770	-5.398	13.339	1.00	0.00
ATOM 1423	CB	GLN A	97	125.212	-7.303	15.529	1.00	0.00
ATOM 1424	CG	GLN A	97	126.300	-8.185	16.117	1.00	0.00
ATOM 1425	CD	GLN A	97	126.152	-9.640	15.720	1.00	0.00

ATOM 1426 OE1 GLN A 97 125.213 -10.317 16.141 1.00 0.00
ATOM 1427 NE2 GLN A 97 127.077 -10.129 14.903 1.00 0.00
ATOM 1428 H GLN A 97 126.347 -5.176 14.244 1.00 0.00
ATOM 1429 HA GLN A 97 125.682 -7.961 13.548 1.00 0.00
ATOM 1430 1HB GLN A 97 125.225 -6.356 16.050 1.00 0.00
ATOM 1431 2HB GLN A 97 124.259 -7.784 15.699 1.00 0.00
ATOM 1432 1HG GLN A 97 127.260 -7.830 15.771 1.00 0.00
ATOM 1433 2HG GLN A 97 126.260 -8.115 17.196 1.00 0.00
ATOM 1434 1HE2 GLN A 97 127.796 -9.531 14.608 1.00 0.00
ATOM 1435 2HE2 GLN A 97 127.005 -11.066 14.630 1.00 0.00
ATOM 1436 N PRO A 98 123.198 -7.552 13.015 1.00 0.00
ATOM 1437 CA PRO A 98 121.892 -7.248 12.423 1.00 0.00
ATOM 1438 C PRO A 98 121.064 -6.310 13.296 1.00 0.00
ATOM 1439 O PRO A 98 121.520 -5.859 14.346 1.00 0.00
ATOM 1440 CB PRO A 98 121.218 -8.617 12.320 1.00 0.00
ATOM 1441 CG PRO A 98 122.345 -9.589 12.252 1.00 0.00
ATOM 1442 CD PRO A 98 123.448 -9.004 13.089 1.00 0.00
ATOM 1443 HA PRO A 98 121.996 -6.819 11.436 1.00 0.00
ATOM 1444 1HB PRO A 98 120.603 -8.785 13.193 1.00 0.00
ATOM 1445 2HB PRO A 98 120.610 -8.657 11.430 1.00 0.00
ATOM 1446 1HG PRO A 98 122.033 -10.541 12.655 1.00 0.00
ATOM 1447 2HG PRO A 98 122.671 -9.702 11.228 1.00 0.00
ATOM 1448 1HD PRO A 98 123.376 -9.356 14.108 1.00 0.00
ATOM 1449 2HD PRO A 98 124.412 -9.251 12.670 1.00 0.00
ATOM 1450 N SER A 99 119.844 -6.023 12.855 1.00 0.00
ATOM 1451 CA SER A 99 118.951 -5.140 13.597 1.00 0.00
ATOM 1452 C SER A 99 117.810 -5.928 14.232 1.00 0.00
ATOM 1453 O SER A 99 117.697 -5.997 15.456 1.00 0.00
ATOM 1454 CB SER A 99 118.386 -4.058 12.675 1.00 0.00

ATOM 1455	OG	SER A	99	118.327	-4.512	11.333	1.00	0.00
ATOM 1456	H	SER A	99	119.535	-6.414	12.011	1.00	0.00
ATOM 1457	HA	SER A	99	119.527	-4.669	14.379	1.00	0.00
ATOM 1458	1HB	SER A	99	117.390	-3.797	12.997	1.00	0.00
ATOM 1459	2HB	SER A	99	119.020	-3.184	12.717	1.00	0.00
ATOM 1460	HG	SER A	99	118.412	-3.764	10.737	1.00	0.00
ATOM 1461	N	GLY A	100	116.966	-6.519	13.393	1.00	0.00
ATOM 1462	CA	GLY A	100	115.846	-7.293	13.892	1.00	0.00
ATOM 1463	C	GLY A	100	114.524	-6.565	13.742	1.00	0.00
ATOM 1464	O	GLY A	100	114.144	-5.782	14.613	1.00	0.00
ATOM 1465	H	GLY A	100	117.107	-6.428	12.427	1.00	0.00
ATOM 1466	1HA	GLY A	100	115.796	-8.225	13.347	1.00	0.00
ATOM 1467	2HA	GLY A	100	116.009	-7.509	14.937	1.00	0.00
ATOM 1468	N	PRO A	101	113.793	-6.802	12.638	1.00	0.00
ATOM 1469	CA	PRO A	101	112.500	-6.153	12.392	1.00	0.00
ATOM 1470	C	PRO A	101	111.553	-6.277	13.581	1.00	0.00
ATOM 1471	O	PRO A	101	111.276	-7.378	14.055	1.00	0.00
ATOM 1472	CB	PRO A	101	111.946	-6.912	11.186	1.00	0.00
ATOM 1473	CG	PRO A	101	113.151	-7.427	10.478	1.00	0.00
ATOM 1474	CD	PRO A	101	114.167	-7.720	11.546	1.00	0.00
ATOM 1475	HA	PRO A	101	112.624	-5.110	12.139	1.00	0.00
ATOM 1476	1HB	PRO A	101	111.311	-7.718	11.525	1.00	0.00
ATOM 1477	2HB	PRO A	101	111.380	-6.238	10.561	1.00	0.00
ATOM 1478	1HG	PRO A	101	112.901	-8.329	9.939	1.00	0.00
ATOM 1479	2HG	PRO A	101	113.526	-6.676	9.799	1.00	0.00
ATOM 1480	1HD	PRO A	101	114.093	-8.749	11.865	1.00	0.00
ATOM 1481	2HD	PRO A	101	115.164	-7.505	11.188	1.00	0.00
ATOM 1482	N	SER A	102	111.061	-5.138	14.060	1.00	0.00
ATOM 1483	CA	SER A	102	110.144	-5.120	15.194	1.00	0.00

ATOM 1484 C SER A 102 110.802 -5.719 16.434 1.00 0.00
ATOM 1485 O SER A 102 110.493 -6.842 16.831 1.00 0.00
ATOM 1486 CB SER A 102 108.866 -5.890 14.857 1.00 0.00
ATOM 1487 OG SER A 102 107.873 -5.024 14.333 1.00 0.00
ATOM 1488 H SER A 102 111.319 -4.292 13.640 1.00 0.00
ATOM 1489 HA SER A 102 109.891 -4.091 15.398 1.00 0.00
ATOM 1490 1HB SER A 102 109.088 -6.647 14.120 1.00 0.00
ATOM 1491 2HB SER A 102 108.483 -6.358 15.752 1.00 0.00
ATOM 1492 HG SER A 102 108.270 -4.434 13.690 1.00 0.00
ATOM 1493 N SER A 103 111.709 -4.961 17.041 1.00 0.00
ATOM 1494 CA SER A 103 112.410 -5.416 18.235 1.00 0.00
ATOM 1495 C SER A 103 111.554 -5.208 19.481 1.00 0.00
ATOM 1496 O SER A 103 110.663 -4.359 19.498 1.00 0.00
ATOM 1497 CB SER A 103 113.740 -4.676 18.385 1.00 0.00
ATOM 1498 OG SER A 103 114.772 -5.329 17.666 1.00 0.00
ATOM 1499 H SER A 103 111.912 -4.075 16.676 1.00 0.00
ATOM 1500 HA SER A 103 112.607 -6.472 18.121 1.00 0.00
ATOM 1501 1HB SER A 103 113.634 -3.670 18.006 1.00 0.00
ATOM 1502 2HB SER A 103 114.013 -4.638 19.430 1.00 0.00
ATOM 1503 HG SER A 103 114.839 -6.240 17.960 1.00 0.00
ATOM 1504 N GLY A 104 111.832 -5.986 20.520 1.00 0.00
ATOM 1505 CA GLY A 104 111.079 -5.871 21.756 1.00 0.00
ATOM 1506 C GLY A 104 111.969 -5.896 22.983 1.00 0.00
ATOM 1507 O GLY A 104 111.575 -6.523 23.989 1.00 0.00
ATOM 1508 OXT GLY A 104 113.061 -5.291 22.937 1.00 0.00
ATOM 1509 H GLY A 104 112.555 -6.645 20.449 1.00 0.00
ATOM 1510 1HA GLY A 104 110.529 -4.941 21.743 1.00 0.00
ATOM 1511 2HA GLY A 104 110.379 -6.691 21.815 1.00 0.00
TER 1512 GLY A 104

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ATOM 1	N	GLY A	1	132.485	-2.135	-14.848	1.00	0.00
ATOM 2	CA	GLY A	1	133.474	-2.831	-13.979	1.00	0.00
ATOM 3	C	GLY A	1	133.260	-2.538	-12.507	1.00	0.00
ATOM 4	O	GLY A	1	133.286	-3.446	-11.676	1.00	0.00
ATOM 5	1H	GLY A	1	132.906	-1.268	-15.244	1.00	0.00
ATOM 6	2H	GLY A	1	131.643	-1.877	-14.296	1.00	0.00
ATOM 7	3H	GLY A	1	132.197	-2.756	-15.631	1.00	0.00
ATOM 8	1HA	GLY A	1	133.389	-3.896	-14.138	1.00	0.00
ATOM 9	2HA	GLY A	1	134.468	-2.515	-14.257	1.00	0.00
ATOM 10	N	SER A	2	133.048	-1.266	-12.184	1.00	0.00
ATOM 11	CA	SER A	2	132.829	-0.855	-10.803	1.00	0.00
ATOM 12	C	SER A	2	131.367	-0.493	-10.568	1.00	0.00
ATOM 13	O	SER A	2	130.763	0.238	-11.354	1.00	0.00
ATOM 14	CB	SER A	2	133.723	0.338	-10.456	1.00	0.00
ATOM 15	OG	SER A	2	133.256	1.523	-11.074	1.00	0.00
ATOM 16	H	SER A	2	133.039	-0.588	-12.892	1.00	0.00
ATOM 17	HA	SER A	2	133.089	-1.686	-10.164	1.00	0.00
ATOM 18	1HB	SER A	2	133.727	0.483	-9.386	1.00	0.00
ATOM 19	2HB	SER A	2	134.729	0.141	-10.795	1.00	0.00
ATOM 20	HG	SER A	2	133.668	2.285	-10.661	1.00	0.00
ATOM 21	N	SER A	3	130.801	-1.010	-9.482	1.00	0.00
ATOM 22	CA	SER A	3	129.408	-0.742	-9.143	1.00	0.00
ATOM 23	C	SER A	3	129.287	0.525	-8.303	1.00	0.00
ATOM 24	O	SER A	3	129.369	0.478	-7.076	1.00	0.00
ATOM 25	CB	SER A	3	128.807	-1.928	-8.388	1.00	0.00
ATOM 26	OG	SER A	3	127.458	-2.142	-8.764	1.00	0.00

ATOM 27	H	SER A	3	131.334	-1.586	-8.893	1.00	0.00
ATOM 28	HA	SER A	3	128.865	-0.602	-10.066	1.00	0.00
ATOM 29	1HB	SER A	3	129.375	-2.820	-8.612	1.00	0.00
ATOM 30	2HB	SER A	3	128.847	-1.734	-7.326	1.00	0.00
ATOM 31	HG	SER A	3	126.975	-1.313	-8.709	1.00	0.00
ATOM 32	N	GLY A	4	129.091	1.657	-8.972	1.00	0.00
ATOM 33	CA	GLY A	4	128.962	2.919	-8.271	1.00	0.00
ATOM 34	C	GLY A	4	128.420	4.023	-9.158	1.00	0.00
ATOM 35	O	GLY A	4	128.458	3.918	-10.383	1.00	0.00
ATOM 36	H	GLY A	4	129.035	1.633	-9.950	1.00	0.00
ATOM 37	1HA	GLY A	4	128.293	2.787	-7.432	1.00	0.00
ATOM 38	2HA	GLY A	4	129.932	3.214	-7.901	1.00	0.00
ATOM 39	N	SER A	5	127.915	5.084	-8.537	1.00	0.00
ATOM 40	CA	SER A	5	127.362	6.212	-9.279	1.00	0.00
ATOM 41	C	SER A	5	127.409	7.487	-8.444	1.00	0.00
ATOM 42	O	SER A	5	127.856	8.534	-8.914	1.00	0.00
ATOM 43	CB	SER A	5	125.922	5.916	-9.699	1.00	0.00
ATOM 44	OG	SER A	5	125.076	5.793	-8.569	1.00	0.00
ATOM 45	H	SER A	5	127.913	5.110	-7.558	1.00	0.00
ATOM 46	HA	SER A	5	127.964	6.353	-10.164	1.00	0.00
ATOM 47	1HB	SER A	5	125.558	6.722	-10.319	1.00	0.00
ATOM 48	2HB	SER A	5	125.895	4.993	-10.258	1.00	0.00
ATOM 49	HG	SER A	5	124.212	6.159	-8.774	1.00	0.00
ATOM 50	N	SER A	6	126.945	7.394	-7.202	1.00	0.00
ATOM 51	CA	SER A	6	126.933	8.540	-6.301	1.00	0.00
ATOM 52	C	SER A	6	128.282	8.699	-5.606	1.00	0.00
ATOM 53	O	SER A	6	129.041	7.739	-5.475	1.00	0.00
ATOM 54	CB	SER A	6	125.824	8.385	-5.259	1.00	0.00
ATOM 55	OG	SER A	6	125.843	7.091	-4.683	1.00	0.00

ATOM 56	H	SER A	6	126.601	6.532	-6.884	1.00	0.00
ATOM 57	HA	SER A	6	126.740	9.423	-6.892	1.00	0.00
ATOM 58	1HB	SER A	6	125.965	9.115	-4.475	1.00	0.00
ATOM 59	2HB	SER A	6	124.866	8.543	-5.731	1.00	0.00
ATOM 60	HG	SER A	6	126.724	6.899	-4.353	1.00	0.00
ATOM 61	N	GLY A	7	128.574	9.917	-5.163	1.00	0.00
ATOM 62	CA	GLY A	7	129.830	10.179	-4.487	1.00	0.00
ATOM 63	C	GLY A	7	129.885	11.568	-3.882	1.00	0.00
ATOM 64	O	GLY A	7	130.880	12.278	-4.029	1.00	0.00
ATOM 65	H	GLY A	7	127.930	10.645	-5.297	1.00	0.00
ATOM 66	1HA	GLY A	7	129.962	9.451	-3.702	1.00	0.00
ATOM 67	2HA	GLY A	7	130.637	10.078	-5.198	1.00	0.00
ATOM 68	N	LEU A	8	128.813	11.957	-3.200	1.00	0.00
ATOM 69	CA	LEU A	8	128.741	13.271	-2.570	1.00	0.00
ATOM 70	C	LEU A	8	128.749	13.146	-1.050	1.00	0.00
ATOM 71	O	LEU A	8	128.123	13.940	-0.349	1.00	0.00
ATOM 72	CB	LEU A	8	127.482	14.011	-3.026	1.00	0.00
ATOM 73	CG	LEU A	8	127.632	14.802	-4.326	1.00	0.00
ATOM 74	CD1	LEU A	8	126.291	14.925	-5.034	1.00	0.00
ATOM 75	CD2	LEU A	8	128.217	16.179	-4.047	1.00	0.00
ATOM 76	H	LEU A	8	128.050	11.347	-3.119	1.00	0.00
ATOM 77	HA	LEU A	8	129.610	13.834	-2.878	1.00	0.00
ATOM 78	1HB	LEU A	8	126.692	13.286	-3.158	1.00	0.00
ATOM 79	2HB	LEU A	8	127.190	14.697	-2.245	1.00	0.00
ATOM 80	HG	LEU A	8	128.308	14.277	-4.983	1.00	0.00
ATOM 81	1HD1	LEU A	8	126.239	15.875	-5.546	1.00	0.00
ATOM 82	2HD1	LEU A	8	125.493	14.863	-4.307	1.00	0.00
ATOM 83	3HD1	LEU A	8	126.187	14.124	-5.750	1.00	0.00
ATOM 84	1HD2	LEU A	8	127.824	16.888	-4.760	1.00	0.00

ATOM 85	2HD2	LEU A	8	129.293	16.137	-4.136	1.00	0.00
ATOM 86	3HD2	LEU A	8	127.950	16.487	-3.047	1.00	0.00
ATOM 87	N	ALA A	9	129.465	12.144	-0.548	1.00	0.00
ATOM 88	CA	ALA A	9	129.555	11.916	0.889	1.00	0.00
ATOM 89	C	ALA A	9	130.916	11.341	1.267	1.00	0.00
ATOM 90	O	ALA A	9	131.007	10.386	2.039	1.00	0.00
ATOM 91	CB	ALA A	9	128.440	10.988	1.346	1.00	0.00
ATOM 92	H	ALA A	9	129.942	11.546	-1.158	1.00	0.00
ATOM 93	HA	ALA A	9	129.426	12.866	1.386	1.00	0.00
ATOM 94	1HB	ALA A	9	128.296	11.095	2.411	1.00	0.00
ATOM 95	2HB	ALA A	9	128.707	9.966	1.120	1.00	0.00
ATOM 96	3HB	ALA A	9	127.526	11.242	0.831	1.00	0.00
ATOM 97	N	MET A	10	131.974	11.929	0.717	1.00	0.00
ATOM 98	CA	MET A	10	133.332	11.475	0.996	1.00	0.00
ATOM 99	C	MET A	10	134.283	12.661	1.158	1.00	0.00
ATOM 100	O	MET A	10	135.242	12.808	0.401	1.00	0.00
ATOM 101	CB	MET A	10	133.825	10.557	-0.127	1.00	0.00
ATOM 102	CG	MET A	10	133.494	11.064	-1.523	1.00	0.00
ATOM 103	SD	MET A	10	134.899	11.857	-2.329	1.00	0.00
ATOM 104	CE	MET A	10	134.803	11.137	-3.965	1.00	0.00
ATOM 105	H	MET A	10	131.838	12.686	0.109	1.00	0.00
ATOM 106	HA	MET A	10	133.311	10.918	1.920	1.00	0.00
ATOM 107	1HB	MET A	10	134.897	10.458	-0.048	1.00	0.00
ATOM 108	2HB	MET A	10	133.372	9.584	-0.004	1.00	0.00
ATOM 109	1HG	MET A	10	133.178	10.227	-2.128	1.00	0.00
ATOM 110	2HG	MET A	10	132.687	11.778	-1.452	1.00	0.00
ATOM 111	1HE	MET A	10	135.673	11.424	-4.536	1.00	0.00
ATOM 112	2HE	MET A	10	133.912	11.489	-4.462	1.00	0.00
ATOM 113	3HE	MET A	10	134.767	10.060	-3.883	1.00	0.00

ATOM 114	N	PRO A	11	134.028	13.530	2.154	1.00	0.00
ATOM 115	CA	PRO A	11	134.869	14.707	2.406	1.00	0.00
ATOM 116	C	PRO A	11	136.323	14.343	2.706	1.00	0.00
ATOM 117	O	PRO A	11	137.243	14.934	2.142	1.00	0.00
ATOM 118	CB	PRO A	11	134.223	15.370	3.629	1.00	0.00
ATOM 119	CG	PRO A	11	132.840	14.818	3.694	1.00	0.00
ATOM 120	CD	PRO A	11	132.907	13.439	3.104	1.00	0.00
ATOM 121	HA	PRO A	11	134.841	15.391	1.570	1.00	0.00
ATOM 122	1HB	PRO A	11	134.789	15.125	4.514	1.00	0.00
ATOM 123	2HB	PRO A	11	134.212	16.441	3.492	1.00	0.00
ATOM 124	1HG	PRO A	11	132.515	14.768	4.723	1.00	0.00
ATOM 125	2HG	PRO A	11	132.170	15.439	3.119	1.00	0.00
ATOM 126	1HD	PRO A	11	133.108	12.708	3.873	1.00	0.00
ATOM 127	2HD	PRO A	11	131.985	13.205	2.592	1.00	0.00
ATOM 128	N	PRO A	12	136.556	13.370	3.608	1.00	0.00
ATOM 129	CA	PRO A	12	137.907	12.949	3.978	1.00	0.00
ATOM 130	C	PRO A	12	138.499	11.939	3.000	1.00	0.00
ATOM 131	O	PRO A	12	139.664	12.044	2.616	1.00	0.00
ATOM 132	CB	PRO A	12	137.694	12.306	5.345	1.00	0.00
ATOM 133	CG	PRO A	12	136.322	11.725	5.275	1.00	0.00
ATOM 134	CD	PRO A	12	135.527	12.609	4.344	1.00	0.00
ATOM 135	HA	PRO A	12	138.574	13.792	4.073	1.00	0.00
ATOM 136	1HB	PRO A	12	138.441	11.543	5.507	1.00	0.00
ATOM 137	2HB	PRO A	12	137.765	13.059	6.116	1.00	0.00
ATOM 138	1HG	PRO A	12	136.371	10.720	4.885	1.00	0.00
ATOM 139	2HG	PRO A	12	135.876	11.724	6.259	1.00	0.00
ATOM 140	1HD	PRO A	12	134.939	12.007	3.668	1.00	0.00
ATOM 141	2HD	PRO A	12	134.889	13.271	4.910	1.00	0.00
ATOM 142	N	GLY A	13	137.695	10.958	2.605	1.00	0.00

ATOM 143	CA	GLY A	13	138.165	9.942	1.680	1.00	0.00
ATOM 144	C	GLY A	13	137.387	9.927	0.380	1.00	0.00
ATOM 145	O	GLY A	13	137.055	10.980	-0.165	1.00	0.00
ATOM 146	H	GLY A	13	136.776	10.921	2.947	1.00	0.00
ATOM 147	1HA	GLY A	13	139.206	10.126	1.460	1.00	0.00
ATOM 148	2HA	GLY A	13	138.075	8.975	2.152	1.00	0.00
ATOM 149	N	ASN A	14	137.097	8.729	-0.117	1.00	0.00
ATOM 150	CA	ASN A	14	136.354	8.576	-1.364	1.00	0.00
ATOM 151	C	ASN A	14	135.392	7.395	-1.282	1.00	0.00
ATOM 152	O	ASN A	14	135.721	6.353	-0.716	1.00	0.00
ATOM 153	CB	ASN A	14	137.318	8.384	-2.536	1.00	0.00
ATOM 154	CG	ASN A	14	138.440	9.403	-2.536	1.00	0.00
ATOM 155	OD1	ASN A	14	138.425	10.362	-3.307	1.00	0.00
ATOM 156	ND2	ASN A	14	139.424	9.201	-1.666	1.00	0.00
ATOM 157	H	ASN A	14	137.390	7.928	0.364	1.00	0.00
ATOM 158	HA	ASN A	14	135.785	9.479	-1.523	1.00	0.00
ATOM 159	1HB	ASN A	14	137.753	7.397	-2.478	1.00	0.00
ATOM 160	2HB	ASN A	14	136.771	8.478	-3.462	1.00	0.00
ATOM 161	1HD2	ASN A	14	139.370	8.415	-1.082	1.00	0.00
ATOM 162	2HD2	ASN A	14	140.162	9.844	-1.644	1.00	0.00
ATOM 163	N	SER A	15	134.203	7.567	-1.851	1.00	0.00
ATOM 164	CA	SER A	15	133.189	6.517	-1.845	1.00	0.00
ATOM 165	C	SER A	15	132.729	6.212	-0.422	1.00	0.00
ATOM 166	O	SER A	15	131.666	6.664	0.007	1.00	0.00
ATOM 167	CB	SER A	15	133.733	5.247	-2.504	1.00	0.00
ATOM 168	OG	SER A	15	133.356	5.179	-3.869	1.00	0.00
ATOM 169	H	SER A	15	134.001	8.422	-2.287	1.00	0.00
ATOM 170	HA	SER A	15	132.344	6.872	-2.414	1.00	0.00
ATOM 171	1HB	SER A	15	134.811	5.244	-2.442	1.00	0.00

ATOM 172	2HB	SER A	15	133.341	4.381	-1.991	1.00	0.00
ATOM 173	HG	SER A	15	132.415	5.352	-3.950	1.00	0.00
ATOM 174	N	HIS A	16	133.533	5.445	0.306	1.00	0.00
ATOM 175	CA	HIS A	16	133.208	5.082	1.680	1.00	0.00
ATOM 176	C	HIS A	16	134.066	5.865	2.668	1.00	0.00
ATOM 177	O	HIS A	16	133.573	6.351	3.686	1.00	0.00
ATOM 178	CB	HIS A	16	133.405	3.580	1.894	1.00	0.00
ATOM 179	CG	HIS A	16	132.249	2.752	1.423	1.00	0.00
ATOM 180	ND1	HIS A	16	131.753	1.680	2.135	1.00	0.00
ATOM 181	CD2	HIS A	16	131.490	2.843	0.305	1.00	0.00
ATOM 182	CE1	HIS A	16	130.739	1.148	1.475	1.00	0.00
ATOM 183	NE2	HIS A	16	130.560	1.835	0.362	1.00	0.00
ATOM 184	H	HIS A	16	134.367	5.115	-0.090	1.00	0.00
ATOM 185	HA	HIS A	16	132.170	5.328	1.851	1.00	0.00
ATOM 186	1HB	HIS A	16	134.284	3.260	1.355	1.00	0.00
ATOM 187	2HB	HIS A	16	133.545	3.389	2.948	1.00	0.00
ATOM 188	HD1	HIS A	16	132.093	1.357	2.995	1.00	0.00
ATOM 189	HD2	HIS A	16	131.598	3.573	-0.485	1.00	0.00
ATOM 190	HE1	HIS A	16	130.157	0.295	1.792	1.00	0.00
ATOM 191	HE2	HIS A	16	129.823	1.704	-0.270	1.00	0.00
ATOM 192	N	GLY A	17	135.354	5.982	2.360	1.00	0.00
ATOM 193	CA	GLY A	17	136.261	6.707	3.230	1.00	0.00
ATOM 194	C	GLY A	17	137.602	6.015	3.375	1.00	0.00
ATOM 195	O	GLY A	17	138.004	5.653	4.481	1.00	0.00
ATOM 196	H	GLY A	17	135.690	5.574	1.536	1.00	0.00
ATOM 197	1HA	GLY A	17	136.421	7.695	2.823	1.00	0.00
ATOM 198	2HA	GLY A	17	135.809	6.802	4.206	1.00	0.00
ATOM 199	N	LEU A	18	138.294	5.830	2.256	1.00	0.00
ATOM 200	CA	LEU A	18	139.598	5.176	2.264	1.00	0.00

ATOM 201	C	LEU A	18	140.706	6.174	2.579	1.00	0.00
ATOM 202	O	LEU A	18	141.119	6.952	1.718	1.00	0.00
ATOM 203	CB	LEU A	18	139.865	4.509	0.913	1.00	0.00
ATOM 204	CG	LEU A	18	138.793	3.519	0.456	1.00	0.00
ATOM 205	CD1	LEU A	18	138.995	3.149	-1.004	1.00	0.00
ATOM 206	CD2	LEU A	18	138.812	2.274	1.330	1.00	0.00
ATOM 207	H	LEU A	18	137.921	6.141	1.406	1.00	0.00
ATOM 208	HA	LEU A	18	139.583	4.418	3.032	1.00	0.00
ATOM 209	1HB	LEU A	18	139.953	5.284	0.165	1.00	0.00
ATOM 210	2HB	LEU A	18	140.806	3.983	0.975	1.00	0.00
ATOM 211	HG	LEU A	18	137.821	3.981	0.552	1.00	0.00
ATOM 212	1HD1	LEU A	18	139.946	2.651	-1.122	1.00	0.00
ATOM 213	2HD1	LEU A	18	138.982	4.045	-1.608	1.00	0.00
ATOM 214	3HD1	LEU A	18	138.202	2.489	-1.322	1.00	0.00
ATOM 215	1HD2	LEU A	18	139.397	1.505	0.849	1.00	0.00
ATOM 216	2HD2	LEU A	18	137.802	1.920	1.475	1.00	0.00
ATOM 217	3HD2	LEU A	18	139.250	2.513	2.288	1.00	0.00
ATOM 218	N	GLU A	19	141.185	6.148	3.819	1.00	0.00
ATOM 219	CA	GLU A	19	142.246	7.051	4.248	1.00	0.00
ATOM 220	C	GLU A	19	143.202	6.348	5.207	1.00	0.00
ATOM 221	O	GLU A	19	143.061	5.156	5.479	1.00	0.00
ATOM 222	CB	GLU A	19	141.650	8.289	4.919	1.00	0.00
ATOM 223	CG	GLU A	19	140.820	7.972	6.152	1.00	0.00
ATOM 224	CD	GLU A	19	141.049	8.961	7.279	1.00	0.00
ATOM 225	OE1	GLU A	19	142.219	9.330	7.517	1.00	0.00
ATOM 226	OE2	GLU A	19	140.058	9.368	7.922	1.00	0.00
ATOM 227	H	GLU A	19	140.816	5.504	4.460	1.00	0.00
ATOM 228	HA	GLU A	19	142.796	7.357	3.371	1.00	0.00
ATOM 229	1HB	GLU A	19	142.455	8.948	5.212	1.00	0.00

ATOM 230	2HB	GLU A	19	141.018	8.800	4.209	1.00	0.00
ATOM 231	1HG	GLU A	19	139.776	7.993	5.883	1.00	0.00
ATOM 232	2HG	GLU A	19	141.081	6.984	6.502	1.00	0.00
ATOM 233	N	VAL A	20	144.175	7.096	5.717	1.00	0.00
ATOM 234	CA	VAL A	20	145.156	6.545	6.647	1.00	0.00
ATOM 235	C	VAL A	20	144.476	5.973	7.886	1.00	0.00
ATOM 236	O	VAL A	20	143.563	6.582	8.443	1.00	0.00
ATOM 237	CB	VAL A	20	146.178	7.612	7.081	1.00	0.00
ATOM 238	CG1	VAL A	20	147.289	6.984	7.908	1.00	0.00
ATOM 239	CG2	VAL A	20	146.748	8.330	5.868	1.00	0.00
ATOM 240	H	VAL A	20	144.237	8.041	5.462	1.00	0.00
ATOM 241	HA	VAL A	20	145.687	5.753	6.139	1.00	0.00
ATOM 242	HB	VAL A	20	145.670	8.340	7.697	1.00	0.00
ATOM 243	1HG1	VAL A	20	146.955	6.867	8.929	1.00	0.00
ATOM 244	2HG1	VAL A	20	148.160	7.622	7.885	1.00	0.00
ATOM 245	3HG1	VAL A	20	147.539	6.017	7.499	1.00	0.00
ATOM 246	1HG2	VAL A	20	147.025	7.605	5.117	1.00	0.00
ATOM 247	2HG2	VAL A	20	147.620	8.896	6.161	1.00	0.00
ATOM 248	3HG2	VAL A	20	146.004	9.001	5.463	1.00	0.00
ATOM 249	N	GLY A	21	144.928	4.797	8.312	1.00	0.00
ATOM 250	CA	GLY A	21	144.352	4.163	9.482	1.00	0.00
ATOM 251	C	GLY A	21	143.278	3.154	9.125	1.00	0.00
ATOM 252	O	GLY A	21	143.175	2.098	9.750	1.00	0.00
ATOM 253	H	GLY A	21	145.658	4.358	7.827	1.00	0.00
ATOM 254	1HA	GLY A	21	145.137	3.658	10.028	1.00	0.00
ATOM 255	2HA	GLY A	21	143.920	4.923	10.116	1.00	0.00
ATOM 256	N	SER A	22	142.474	3.480	8.118	1.00	0.00
ATOM 257	CA	SER A	22	141.402	2.595	7.678	1.00	0.00
ATOM 258	C	SER A	22	141.949	1.470	6.805	1.00	0.00

ATOM 259	O	SER A	22	142.939	1.645	6.095	1.00	0.00
ATOM 260	CB	SER A	22	140.344	3.385	6.907	1.00	0.00
ATOM 261	OG	SER A	22	140.269	4.723	7.368	1.00	0.00
ATOM 262	H	SER A	22	142.606	4.335	7.659	1.00	0.00
ATOM 263	HA	SER A	22	140.947	2.164	8.556	1.00	0.00
ATOM 264	1HB	SER A	22	140.598	3.395	5.857	1.00	0.00
ATOM 265	2HB	SER A	22	139.380	2.916	7.039	1.00	0.00
ATOM 266	HG	SER A	22	140.281	4.731	8.329	1.00	0.00
ATOM 267	N	LEU A	23	141.298	0.312	6.864	1.00	0.00
ATOM 268	CA	LEU A	23	141.719	-0.842	6.079	1.00	0.00
ATOM 269	C	LEU A	23	141.156	-0.772	4.664	1.00	0.00
ATOM 270	O	LEU A	23	140.073	-0.229	4.441	1.00	0.00
ATOM 271	CB	LEU A	23	141.267	-2.138	6.756	1.00	0.00
ATOM 272	CG	LEU A	23	141.762	-2.325	8.192	1.00	0.00
ATOM 273	CD1	LEU A	23	140.763	-3.143	8.997	1.00	0.00
ATOM 274	CD2	LEU A	23	143.129	-2.990	8.201	1.00	0.00
ATOM 275	H	LEU A	23	140.515	0.233	7.449	1.00	0.00
ATOM 276	HA	LEU A	23	142.797	-0.831	6.026	1.00	0.00
ATOM 277	1HB	LEU A	23	140.186	-2.158	6.763	1.00	0.00
ATOM 278	2HB	LEU A	23	141.622	-2.970	6.167	1.00	0.00
ATOM 279	HG	LEU A	23	141.855	-1.357	8.662	1.00	0.00
ATOM 280	1HD1	LEU A	23	140.721	-2.765	10.008	1.00	0.00
ATOM 281	2HD1	LEU A	23	141.074	-4.177	9.012	1.00	0.00
ATOM 282	3HD1	LEU A	23	139.786	-3.066	8.544	1.00	0.00
ATOM 283	1HD2	LEU A	23	143.718	-2.591	9.013	1.00	0.00
ATOM 284	2HD2	LEU A	23	143.630	-2.796	7.264	1.00	0.00
ATOM 285	3HD2	LEU A	23	143.010	-4.056	8.332	1.00	0.00
ATOM 286	N	ALA A	24	141.896	-1.326	3.709	1.00	0.00
ATOM 287	CA	ALA A	24	141.472	-1.326	2.314	1.00	0.00

ATOM 288	C	ALA A	24	142.116	-2.474	1.545	1.00	0.00
ATOM 289	O	ALA A	24	143.252	-2.858	1.820	1.00	0.00
ATOM 290	CB	ALA A	24	141.806	0.005	1.660	1.00	0.00
ATOM 291	H	ALA A	24	142.750	-1.744	3.949	1.00	0.00
ATOM 292	HA	ALA A	24	140.398	-1.451	2.294	1.00	0.00
ATOM 293	1HB	ALA A	24	142.746	-0.079	1.134	1.00	0.00
ATOM 294	2HB	ALA A	24	141.884	0.770	2.419	1.00	0.00
ATOM 295	3HB	ALA A	24	141.026	0.270	0.962	1.00	0.00
ATOM 296	N	GLU A	25	141.383	-3.016	0.578	1.00	0.00
ATOM 297	CA	GLU A	25	141.883	-4.121	-0.233	1.00	0.00
ATOM 298	C	GLU A	25	142.149	-3.669	-1.665	1.00	0.00
ATOM 299	O	GLU A	25	141.544	-2.711	-2.146	1.00	0.00
ATOM 300	CB	GLU A	25	140.883	-5.278	-0.229	1.00	0.00
ATOM 301	CG	GLU A	25	141.402	-6.533	-0.912	1.00	0.00
ATOM 302	CD	GLU A	25	140.359	-7.631	-0.983	1.00	0.00
ATOM 303	OE1	GLU A	25	140.483	-8.511	-1.860	1.00	0.00
ATOM 304	OE2	GLU A	25	139.420	-7.612	-0.159	1.00	0.00
ATOM 305	H	GLU A	25	140.484	-2.666	0.406	1.00	0.00
ATOM 306	HA	GLU A	25	142.812	-4.458	0.203	1.00	0.00
ATOM 307	1HB	GLU A	25	140.640	-5.526	0.794	1.00	0.00
ATOM 308	2HB	GLU A	25	139.984	-4.963	-0.738	1.00	0.00
ATOM 309	1HG	GLU A	25	141.704	-6.281	-1.917	1.00	0.00
ATOM 310	2HG	GLU A	25	142.255	-6.900	-0.362	1.00	0.00
ATOM 311	N	VAL A	26	143.058	-4.363	-2.340	1.00	0.00
ATOM 312	CA	VAL A	26	143.405	-4.034	-3.718	1.00	0.00
ATOM 313	C	VAL A	26	143.016	-5.163	-4.667	1.00	0.00
ATOM 314	O	VAL A	26	142.958	-6.327	-4.272	1.00	0.00
ATOM 315	CB	VAL A	26	144.911	-3.750	-3.867	1.00	0.00
ATOM 316	CG1	VAL A	26	145.220	-3.217	-5.257	1.00	0.00

ATOM 317	CG2	VAL A	26	145.378	-2.775	-2.798	1.00	0.00
ATOM 318	H	VAL A	26	143.507	-5.116	-1.903	1.00	0.00
ATOM 319	HA	VAL A	26	142.862	-3.141	-3.995	1.00	0.00
ATOM 320	HB	VAL A	26	145.446	-4.679	-3.735	1.00	0.00
ATOM 321	1HG1	VAL A	26	146.167	-2.698	-5.241	1.00	0.00
ATOM 322	2HG1	VAL A	26	144.441	-2.535	-5.563	1.00	0.00
ATOM 323	3HG1	VAL A	26	145.272	-4.039	-5.955	1.00	0.00
ATOM 324	1HG2	VAL A	26	144.985	-3.076	-1.838	1.00	0.00
ATOM 325	2HG2	VAL A	26	145.026	-1.782	-3.036	1.00	0.00
ATOM 326	3HG2	VAL A	26	146.458	-2.773	-2.759	1.00	0.00
ATOM 327	N	LYS A	27	142.751	-4.810	-5.921	1.00	0.00
ATOM 328	CA	LYS A	27	142.369	-5.793	-6.927	1.00	0.00
ATOM 329	C	LYS A	27	143.583	-6.248	-7.731	1.00	0.00
ATOM 330	O	LYS A	27	144.100	-5.507	-8.567	1.00	0.00
ATOM 331	CB	LYS A	27	141.311	-5.209	-7.865	1.00	0.00
ATOM 332	CG	LYS A	27	140.596	-6.257	-8.703	1.00	0.00
ATOM 333	CD	LYS A	27	139.384	-5.672	-9.410	1.00	0.00
ATOM 334	CE	LYS A	27	139.017	-6.478	-10.646	1.00	0.00
ATOM 335	NZ	LYS A	27	137.542	-6.568	-10.832	1.00	0.00
ATOM 336	H	LYS A	27	142.815	-3.865	-6.176	1.00	0.00
ATOM 337	HA	LYS A	27	141.951	-6.647	-6.414	1.00	0.00
ATOM 338	1HB	LYS A	27	140.573	-4.686	-7.276	1.00	0.00
ATOM 339	2HB	LYS A	27	141.787	-4.509	-8.535	1.00	0.00
ATOM 340	1HG	LYS A	27	141.280	-6.641	-9.443	1.00	0.00
ATOM 341	2HG	LYS A	27	140.271	-7.060	-8.057	1.00	0.00
ATOM 342	1HD	LYS A	27	138.545	-5.673	-8.729	1.00	0.00
ATOM 343	2HD	LYS A	27	139.607	-4.657	-9.707	1.00	0.00
ATOM 344	1HE	LYS A	27	139.452	-6.003	-11.512	1.00	0.00
ATOM 345	2HE	LYS A	27	139.419	-7.475	-10.542	1.00	0.00

ATOM 346 1HZ LYS A 27 137.058 -6.447 -9.919 1.00 0.00
ATOM 347 2HZ LYS A 27 137.287 -7.496 -11.226 1.00 0.00
ATOM 348 3HZ LYS A 27 137.218 -5.825 -11.485 1.00 0.00
ATOM 349 N GLU A 28 144.031 -7.473 -7.475 1.00 0.00
ATOM 350 CA GLU A 28 145.184 -8.026 -8.174 1.00 0.00
ATOM 351 C GLU A 28 145.135 -9.551 -8.180 1.00 0.00
ATOM 352 O GLU A 28 144.125 -10.152 -7.814 1.00 0.00
ATOM 353 CB GLU A 28 146.483 -7.545 -7.523 1.00 0.00
ATOM 354 CG GLU A 28 147.503 -7.017 -8.517 1.00 0.00
ATOM 355 CD GLU A 28 148.752 -7.873 -8.585 1.00 0.00
ATOM 356 OE1 GLU A 28 149.528 -7.872 -7.606 1.00 0.00
ATOM 357 OE2 GLU A 28 148.955 -8.548 -9.617 1.00 0.00
ATOM 358 H GLU A 28 143.576 -8.016 -6.798 1.00 0.00
ATOM 359 HA GLU A 28 145.152 -7.674 -9.194 1.00 0.00
ATOM 360 1HB GLU A 28 146.249 -6.755 -6.824 1.00 0.00
ATOM 361 2HB GLU A 28 146.929 -8.368 -6.983 1.00 0.00
ATOM 362 1HG GLU A 28 147.052 -6.989 -9.497 1.00 0.00
ATOM 363 2HG GLU A 28 147.786 -6.016 -8.224 1.00 0.00
ATOM 364 N ASN A 29 146.234 -10.172 -8.599 1.00 0.00
ATOM 365 CA ASN A 29 146.317 -11.626 -8.650 1.00 0.00
ATOM 366 C ASN A 29 146.467 -12.213 -7.249 1.00 0.00
ATOM 367 O ASN A 29 145.645 -13.020 -6.814 1.00 0.00
ATOM 368 CB ASN A 29 147.493 -12.059 -9.529 1.00 0.00
ATOM 369 CG ASN A 29 147.063 -12.398 -10.943 1.00 0.00
ATOM 370 OD1 ASN A 29 146.874 -13.566 -11.284 1.00 0.00
ATOM 371 ND2 ASN A 29 146.907 -11.375 -11.776 1.00 0.00
ATOM 372 H ASN A 29 147.008 -9.638 -8.876 1.00 0.00
ATOM 373 HA ASN A 29 145.400 -11.995 -9.085 1.00 0.00
ATOM 374 1HB ASN A 29 148.214 -11.257 -9.576 1.00 0.00

ATOM 375	2HB	ASN	A	29	147.958	-12.932	-9.095	1.00	0.00
ATOM 376	1HD2	ASN	A	29	147.076	-10.472	-11.435	1.00	0.00
ATOM 377	2HD2	ASN	A	29	146.629	-11.566	-12.696	1.00	0.00
ATOM 378	N	PRO	A	30	147.526	-11.816	-6.522	1.00	0.00
ATOM 379	CA	PRO	A	30	147.782	-12.306	-5.166	1.00	0.00
ATOM 380	C	PRO	A	30	146.884	-11.635	-4.126	1.00	0.00
ATOM 381	O	PRO	A	30	147.049	-10.453	-3.828	1.00	0.00
ATOM 382	CB	PRO	A	30	149.243	-11.926	-4.932	1.00	0.00
ATOM 383	CG	PRO	A	30	149.448	-10.704	-5.760	1.00	0.00
ATOM 384	CD	PRO	A	30	148.557	-10.856	-6.965	1.00	0.00
ATOM 385	HA	PRO	A	30	147.671	-13.378	-5.105	1.00	0.00
ATOM 386	1HB	PRO	A	30	149.403	-11.727	-3.883	1.00	0.00
ATOM 387	2HB	PRO	A	30	149.884	-12.733	-5.255	1.00	0.00
ATOM 388	1HG	PRO	A	30	149.166	-9.829	-5.194	1.00	0.00
ATOM 389	2HG	PRO	A	30	150.482	-10.638	-6.064	1.00	0.00
ATOM 390	1HD	PRO	A	30	148.113	-9.908	-7.225	1.00	0.00
ATOM 391	2HD	PRO	A	30	149.117	-11.252	-7.799	1.00	0.00
ATOM 392	N	PRO	A	31	145.919	-12.382	-3.559	1.00	0.00
ATOM 393	CA	PRO	A	31	145.001	-11.844	-2.550	1.00	0.00
ATOM 394	C	PRO	A	31	145.700	-11.555	-1.226	1.00	0.00
ATOM 395	O	PRO	A	31	146.226	-12.461	-0.579	1.00	0.00
ATOM 396	CB	PRO	A	31	143.968	-12.960	-2.376	1.00	0.00
ATOM 397	CG	PRO	A	31	144.686	-14.204	-2.768	1.00	0.00
ATOM 398	CD	PRO	A	31	145.648	-13.802	-3.851	1.00	0.00
ATOM 399	HA	PRO	A	31	144.511	-10.946	-2.899	1.00	0.00
ATOM 400	1HB	PRO	A	31	143.644	-12.996	-1.346	1.00	0.00
ATOM 401	2HB	PRO	A	31	143.121	-12.775	-3.019	1.00	0.00
ATOM 402	1HG	PRO	A	31	145.224	-14.600	-1.918	1.00	0.00
ATOM 403	2HG	PRO	A	31	143.982	-14.932	-3.142	1.00	0.00

ATOM 404	1HD	PRO A	31	146.553	-14.388	-3.790	1.00	0.00
ATOM 405	2HD	PRO A	31	145.189	-13.914	-4.822	1.00	0.00
ATOM 406	N	PHE A	32	145.703	-10.287	-0.828	1.00	0.00
ATOM 407	CA	PHE A	32	146.338	-9.878	0.420	1.00	0.00
ATOM 408	C	PHE A	32	145.479	-8.858	1.160	1.00	0.00
ATOM 409	O	PHE A	32	144.591	-8.238	0.574	1.00	0.00
ATOM 410	CB	PHE A	32	147.723	-9.291	0.142	1.00	0.00
ATOM 411	CG	PHE A	32	147.736	-8.287	-0.975	1.00	0.00
ATOM 412	CD1	PHE A	32	148.424	-8.547	-2.150	1.00	0.00
ATOM 413	CD2	PHE A	32	147.060	-7.083	-0.851	1.00	0.00
ATOM 414	CE1	PHE A	32	148.438	-7.626	-3.180	1.00	0.00
ATOM 415	CE2	PHE A	32	147.070	-6.158	-1.878	1.00	0.00
ATOM 416	CZ	PHE A	32	147.760	-6.429	-3.044	1.00	0.00
ATOM 417	H	PHE A	32	145.267	-9.610	-1.386	1.00	0.00
ATOM 418	HA	PHE A	32	146.447	-10.756	1.038	1.00	0.00
ATOM 419	1HB	PHE A	32	148.083	-8.799	1.033	1.00	0.00
ATOM 420	2HB	PHE A	32	148.399	-10.090	-0.120	1.00	0.00
ATOM 421	HD1	PHE A	32	148.955	-9.482	-2.257	1.00	0.00
ATOM 422	HD2	PHE A	32	146.521	-6.871	0.060	1.00	0.00
ATOM 423	HE1	PHE A	32	148.978	-7.839	-4.090	1.00	0.00
ATOM 424	HE2	PHE A	32	146.540	-5.224	-1.769	1.00	0.00
ATOM 425	HZ	PHE A	32	147.770	-5.708	-3.847	1.00	0.00
ATOM 426	N	TYR A	33	145.750	-8.690	2.450	1.00	0.00
ATOM 427	CA	TYR A	33	145.001	-7.746	3.272	1.00	0.00
ATOM 428	C	TYR A	33	145.945	-6.812	4.022	1.00	0.00
ATOM 429	O	TYR A	33	146.943	-7.251	4.594	1.00	0.00
ATOM 430	CB	TYR A	33	144.109	-8.494	4.264	1.00	0.00
ATOM 431	CG	TYR A	33	142.774	-8.908	3.687	1.00	0.00
ATOM 432	CD1	TYR A	33	142.316	-10.213	3.813	1.00	0.00

ATOM 433	CD2	TYR A	33	141.973	-7.993	3.014	1.00	0.00
ATOM 434	CE1	TYR A	33	141.097	-10.594	3.287	1.00	0.00
ATOM 435	CE2	TYR A	33	140.752	-8.368	2.486	1.00	0.00
ATOM 436	CZ	TYR A	33	140.319	-9.668	2.625	1.00	0.00
ATOM 437	OH	TYR A	33	139.104	-10.045	2.099	1.00	0.00
ATOM 438	H	TYR A	33	146.469	-9.214	2.860	1.00	0.00
ATOM 439	HA	TYR A	33	144.379	-7.156	2.615	1.00	0.00
ATOM 440	1HB	TYR A	33	144.620	-9.387	4.592	1.00	0.00
ATOM 441	2HB	TYR A	33	143.921	-7.859	5.117	1.00	0.00
ATOM 442	HD1	TYR A	33	142.927	-10.935	4.333	1.00	0.00
ATOM 443	HD2	TYR A	33	142.316	-6.975	2.907	1.00	0.00
ATOM 444	HE1	TYR A	33	140.757	-11.614	3.396	1.00	0.00
ATOM 445	HE2	TYR A	33	140.144	-7.642	1.967	1.00	0.00
ATOM 446	HH	TYR A	33	138.462	-10.131	2.807	1.00	0.00
ATOM 447	N	GLY A	34	145.623	-5.522	4.016	1.00	0.00
ATOM 448	CA	GLY A	34	146.453	-4.548	4.700	1.00	0.00
ATOM 449	C	GLY A	34	145.682	-3.302	5.091	1.00	0.00
ATOM 450	O	GLY A	34	144.454	-3.272	5.009	1.00	0.00
ATOM 451	H	GLY A	34	144.817	-5.230	3.543	1.00	0.00
ATOM 452	1HA	GLY A	34	146.861	-5.001	5.591	1.00	0.00
ATOM 453	2HA	GLY A	34	147.267	-4.264	4.049	1.00	0.00
ATOM 454	N	VAL A	35	146.405	-2.272	5.520	1.00	0.00
ATOM 455	CA	VAL A	35	145.783	-1.018	5.927	1.00	0.00
ATOM 456	C	VAL A	35	146.505	0.177	5.313	1.00	0.00
ATOM 457	O	VAL A	35	147.721	0.150	5.125	1.00	0.00
ATOM 458	CB	VAL A	35	145.769	-0.870	7.462	1.00	0.00
ATOM 459	CG1	VAL A	35	147.188	-0.848	8.012	1.00	0.00
ATOM 460	CG2	VAL A	35	145.010	0.383	7.873	1.00	0.00
ATOM 461	H	VAL A	35	147.380	-2.359	5.565	1.00	0.00

ATOM 462	HA	VAL A	35	144.760	-1.026	5.579	1.00	0.00
ATOM 463	HB	VAL A	35	145.261	-1.726	7.880	1.00	0.00
ATOM 464	1HG1	VAL A	35	147.862	-1.287	7.291	1.00	0.00
ATOM 465	2HG1	VAL A	35	147.226	-1.413	8.931	1.00	0.00
ATOM 466	3HG1	VAL A	35	147.483	0.173	8.204	1.00	0.00
ATOM 467	1HG2	VAL A	35	143.960	0.255	7.654	1.00	0.00
ATOM 468	2HG2	VAL A	35	145.392	1.231	7.324	1.00	0.00
ATOM 469	3HG2	VAL A	35	145.140	0.551	8.931	1.00	0.00
ATOM 470	N	ILE A	36	145.747	1.224	5.003	1.00	0.00
ATOM 471	CA	ILE A	36	146.316	2.429	4.411	1.00	0.00
ATOM 472	C	ILE A	36	147.242	3.136	5.395	1.00	0.00
ATOM 473	O	ILE A	36	146.961	3.200	6.592	1.00	0.00
ATOM 474	CB	ILE A	36	145.216	3.410	3.960	1.00	0.00
ATOM 475	CG1	ILE A	36	144.192	2.693	3.078	1.00	0.00
ATOM 476	CG2	ILE A	36	145.828	4.590	3.218	1.00	0.00
ATOM 477	CD1	ILE A	36	143.055	3.584	2.627	1.00	0.00
ATOM 478	H	ILE A	36	144.783	1.186	5.177	1.00	0.00
ATOM 479	HA	ILE A	36	146.887	2.136	3.542	1.00	0.00
ATOM 480	HB	ILE A	36	144.720	3.789	4.841	1.00	0.00
ATOM 481	1HG1	ILE A	36	144.686	2.316	2.196	1.00	0.00
ATOM 482	2HG1	ILE A	36	143.767	1.866	3.629	1.00	0.00
ATOM 483	1HG2	ILE A	36	146.782	4.299	2.805	1.00	0.00
ATOM 484	2HG2	ILE A	36	145.968	5.413	3.903	1.00	0.00
ATOM 485	3HG2	ILE A	36	145.168	4.894	2.420	1.00	0.00
ATOM 486	1HD1	ILE A	36	143.454	4.434	2.094	1.00	0.00
ATOM 487	2HD1	ILE A	36	142.502	3.928	3.489	1.00	0.00
ATOM 488	3HD1	ILE A	36	142.397	3.027	1.976	1.00	0.00
ATOM 489	N	ARG A	37	148.348	3.667	4.882	1.00	0.00
ATOM 490	CA	ARG A	37	149.317	4.368	5.718	1.00	0.00

ATOM 491	C	ARG A	37	149.519	5.800	5.231	1.00	0.00
ATOM 492	O	ARG A	37	149.161	6.756	5.921	1.00	0.00
ATOM 493	CB	ARG A	37	150.653	3.625	5.718	1.00	0.00
ATOM 494	CG	ARG A	37	150.520	2.138	6.004	1.00	0.00
ATOM 495	CD	ARG A	37	150.448	1.861	7.496	1.00	0.00
ATOM 496	NE	ARG A	37	149.225	2.391	8.094	1.00	0.00
ATOM 497	CZ	ARG A	37	149.068	2.601	9.399	1.00	0.00
ATOM 498	NH1	ARG A	37	150.053	2.328	10.246	1.00	0.00
ATOM 499	NH2	ARG A	37	147.924	3.087	9.859	1.00	0.00
ATOM 500	H	ARG A	37	148.518	3.582	3.922	1.00	0.00
ATOM 501	HA	ARG A	37	148.929	4.395	6.724	1.00	0.00
ATOM 502	1HB	ARG A	37	151.119	3.744	4.752	1.00	0.00
ATOM 503	2HB	ARG A	37	151.293	4.058	6.473	1.00	0.00
ATOM 504	1HG	ARG A	37	149.620	1.770	5.536	1.00	0.00
ATOM 505	2HG	ARG A	37	151.376	1.624	5.592	1.00	0.00
ATOM 506	1HD	ARG A	37	150.480	0.793	7.654	1.00	0.00
ATOM 507	2HD	ARG A	37	151.301	2.320	7.976	1.00	0.00
ATOM 508	HE	ARG A	37	148.481	2.601	7.491	1.00	0.00
ATOM 509	1HH1	ARG A	37	150.918	1.961	9.906	1.00	0.00
ATOM 510	2HH1	ARG A	37	149.929	2.488	11.224	1.00	0.00
ATOM 511	1HH2	ARG A	37	147.178	3.295	9.226	1.00	0.00
ATOM 512	2HH2	ARG A	37	147.805	3.245	10.839	1.00	0.00
ATOM 513	N	TRP A	38	150.092	5.942	4.041	1.00	0.00
ATOM 514	CA	TRP A	38	150.340	7.259	3.465	1.00	0.00
ATOM 515	C	TRP A	38	149.621	7.414	2.128	1.00	0.00
ATOM 516	O	TRP A	38	149.714	6.549	1.257	1.00	0.00
ATOM 517	CB	TRP A	38	151.845	7.487	3.282	1.00	0.00
ATOM 518	CG	TRP A	38	152.172	8.692	2.450	1.00	0.00
ATOM 519	CD1	TRP A	38	152.385	9.965	2.896	1.00	0.00

ATOM 520	CD2	TRP A	38	152.315	8.736	1.025	1.00	0.00
ATOM 521	NE1	TRP A	38	152.652	10.798	1.836	1.00	0.00
ATOM 522	CE2	TRP A	38	152.614	10.067	0.677	1.00	0.00
ATOM 523	CE3	TRP A	38	152.218	7.779	0.011	1.00	0.00
ATOM 524	CZ2	TRP A	38	152.818	10.462	-0.644	1.00	0.00
ATOM 525	CZ3	TRP A	38	152.421	8.174	-1.298	1.00	0.00
ATOM 526	CH2	TRP A	38	152.718	9.504	-1.616	1.00	0.00
ATOM 527	H	TRP A	38	150.355	5.143	3.538	1.00	0.00
ATOM 528	HA	TRP A	38	149.956	7.998	4.152	1.00	0.00
ATOM 529	1HB	TRP A	38	152.303	7.619	4.251	1.00	0.00
ATOM 530	2HB	TRP A	38	152.276	6.622	2.800	1.00	0.00
ATOM 531	HD1	TRP A	38	152.347	10.260	3.934	1.00	0.00
ATOM 532	HE1	TRP A	38	152.840	11.757	1.898	1.00	0.00
ATOM 533	HE3	TRP A	38	151.989	6.750	0.236	1.00	0.00
ATOM 534	HZ2	TRP A	38	153.045	11.485	-0.905	1.00	0.00
ATOM 535	HZ3	TRP A	38	152.350	7.447	-2.094	1.00	0.00
ATOM 536	HH2	TRP A	38	152.868	9.767	-2.653	1.00	0.00
ATOM 537	N	ILE A	39	148.914	8.527	1.971	1.00	0.00
ATOM 538	CA	ILE A	39	148.186	8.807	0.740	1.00	0.00
ATOM 539	C	ILE A	39	148.655	10.121	0.126	1.00	0.00
ATOM 540	O	ILE A	39	148.335	11.200	0.627	1.00	0.00
ATOM 541	CB	ILE A	39	146.667	8.879	0.986	1.00	0.00
ATOM 542	CG1	ILE A	39	146.190	7.640	1.748	1.00	0.00
ATOM 543	CG2	ILE A	39	145.921	9.014	-0.333	1.00	0.00
ATOM 544	CD1	ILE A	39	145.160	7.947	2.814	1.00	0.00
ATOM 545	H	ILE A	39	148.886	9.181	2.700	1.00	0.00
ATOM 546	HA	ILE A	39	148.383	8.004	0.044	1.00	0.00
ATOM 547	HB	ILE A	39	146.462	9.757	1.578	1.00	0.00
ATOM 548	1HG1	ILE A	39	145.747	6.945	1.051	1.00	0.00

ATOM 549	2HG1	ILE A	39	147.036	7.172	2.228	1.00	0.00
ATOM 550	1HG2	ILE A	39	146.587	9.412	-1.085	1.00	0.00
ATOM 551	2HG2	ILE A	39	145.082	9.681	-0.206	1.00	0.00
ATOM 552	3HG2	ILE A	39	145.564	8.044	-0.647	1.00	0.00
ATOM 553	1HD1	ILE A	39	145.546	8.705	3.479	1.00	0.00
ATOM 554	2HD1	ILE A	39	144.946	7.049	3.377	1.00	0.00
ATOM 555	3HD1	ILE A	39	144.254	8.303	2.348	1.00	0.00
ATOM 556	N	GLY A	40	149.421	10.027	-0.956	1.00	0.00
ATOM 557	CA	GLY A	40	149.925	11.219	-1.610	1.00	0.00
ATOM 558	C	GLY A	40	150.479	10.940	-2.992	1.00	0.00
ATOM 559	O	GLY A	40	150.290	9.853	-3.539	1.00	0.00
ATOM 560	H	GLY A	40	149.648	9.142	-1.310	1.00	0.00
ATOM 561	1HA	GLY A	40	149.122	11.936	-1.694	1.00	0.00
ATOM 562	2HA	GLY A	40	150.707	11.646	-1.001	1.00	0.00
ATOM 563	N	GLN A	41	151.164	11.928	-3.558	1.00	0.00
ATOM 564	CA	GLN A	41	151.749	11.795	-4.885	1.00	0.00
ATOM 565	C	GLN A	41	153.233	12.162	-4.861	1.00	0.00
ATOM 566	O	GLN A	41	153.589	13.310	-4.593	1.00	0.00
ATOM 567	CB	GLN A	41	151.006	12.692	-5.874	1.00	0.00
ATOM 568	CG	GLN A	41	149.494	12.552	-5.804	1.00	0.00
ATOM 569	CD	GLN A	41	148.780	13.884	-5.930	1.00	0.00
ATOM 570	OE1	GLN A	41	148.762	14.682	-4.993	1.00	0.00
ATOM 571	NE2	GLN A	41	148.187	14.129	-7.091	1.00	0.00
ATOM 572	H	GLN A	41	151.277	12.770	-3.071	1.00	0.00
ATOM 573	HA	GLN A	41	151.645	10.767	-5.196	1.00	0.00
ATOM 574	1HB	GLN A	41	151.260	13.721	-5.669	1.00	0.00
ATOM 575	2HB	GLN A	41	151.324	12.446	-6.875	1.00	0.00
ATOM 576	1HG	GLN A	41	149.166	11.910	-6.606	1.00	0.00
ATOM 577	2HG	GLN A	41	149.230	12.107	-4.856	1.00	0.00

ATOM 578	1HE2	GLN	A	41	148.242	13.447	-7.792	1.00	0.00
ATOM 579	2HE2	GLN	A	41	147.718	14.983	-7.200	1.00	0.00
ATOM 580	N	PRO	A	42	154.123	11.192	-5.140	1.00	0.00
ATOM 581	CA	PRO	A	42	155.571	11.431	-5.144	1.00	0.00
ATOM 582	C	PRO	A	42	155.970	12.538	-6.115	1.00	0.00
ATOM 583	O	PRO	A	42	155.226	12.862	-7.040	1.00	0.00
ATOM 584	CB	PRO	A	42	156.160	10.089	-5.592	1.00	0.00
ATOM 585	CG	PRO	A	42	155.105	9.086	-5.277	1.00	0.00
ATOM 586	CD	PRO	A	42	153.796	9.795	-5.471	1.00	0.00
ATOM 587	HA	PRO	A	42	155.932	11.675	-4.156	1.00	0.00
ATOM 588	1HB	PRO	A	42	156.372	10.122	-6.650	1.00	0.00
ATOM 589	2HB	PRO	A	42	157.068	9.891	-5.043	1.00	0.00
ATOM 590	1HG	PRO	A	42	155.182	8.247	-5.953	1.00	0.00
ATOM 591	2HG	PRO	A	42	155.204	8.755	-4.253	1.00	0.00
ATOM 592	1HD	PRO	A	42	153.468	9.707	-6.496	1.00	0.00
ATOM 593	2HD	PRO	A	42	153.049	9.403	-4.796	1.00	0.00
ATOM 594	N	PRO	A	43	157.157	13.135	-5.916	1.00	0.00
ATOM 595	CA	PRO	A	43	157.653	14.210	-6.779	1.00	0.00
ATOM 596	C	PRO	A	43	158.072	13.701	-8.154	1.00	0.00
ATOM 597	O	PRO	A	43	159.237	13.372	-8.377	1.00	0.00
ATOM 598	CB	PRO	A	43	158.867	14.743	-6.019	1.00	0.00
ATOM 599	CG	PRO	A	43	159.338	13.593	-5.199	1.00	0.00
ATOM 600	CD	PRO	A	43	158.107	12.807	-4.836	1.00	0.00
ATOM 601	HA	PRO	A	43	156.922	14.995	-6.894	1.00	0.00
ATOM 602	1HB	PRO	A	43	159.621	15.063	-6.722	1.00	0.00
ATOM 603	2HB	PRO	A	43	158.570	15.575	-5.398	1.00	0.00
ATOM 604	1HG	PRO	A	43	160.015	12.982	-5.778	1.00	0.00
ATOM 605	2HG	PRO	A	43	159.827	13.954	-4.306	1.00	0.00
ATOM 606	1HD	PRO	A	43	158.325	11.749	-4.822	1.00	0.00

ATOM 607	2HD	PRO A	43	157.724	13.126	-3.877	1.00	0.00
ATOM 608	N	GLY A	44	157.115	13.641	-9.073	1.00	0.00
ATOM 609	CA	GLY A	44	157.408	13.172	-10.414	1.00	0.00
ATOM 610	C	GLY A	44	156.177	12.664	-11.134	1.00	0.00
ATOM 611	O	GLY A	44	155.900	13.064	-12.265	1.00	0.00
ATOM 612	H	GLY A	44	156.204	13.916	-8.839	1.00	0.00
ATOM 613	1HA	GLY A	44	157.832	13.986	-10.982	1.00	0.00
ATOM 614	2HA	GLY A	44	158.132	12.374	-10.354	1.00	0.00
ATOM 615	N	LEU A	45	155.434	11.777	-10.479	1.00	0.00
ATOM 616	CA	LEU A	45	154.226	11.214	-11.068	1.00	0.00
ATOM 617	C	LEU A	45	153.012	11.507	-10.196	1.00	0.00
ATOM 618	O	LEU A	45	152.895	10.989	-9.086	1.00	0.00
ATOM 619	CB	LEU A	45	154.382	9.704	-11.255	1.00	0.00
ATOM 620	CG	LEU A	45	154.896	8.948	-10.027	1.00	0.00
ATOM 621	CD1	LEU A	45	154.503	7.479	-10.098	1.00	0.00
ATOM 622	CD2	LEU A	45	156.407	9.097	-9.903	1.00	0.00
ATOM 623	H	LEU A	45	155.705	11.497	-9.578	1.00	0.00
ATOM 624	HA	LEU A	45	154.080	11.674	-12.034	1.00	0.00
ATOM 625	1HB	LEU A	45	153.420	9.294	-11.528	1.00	0.00
ATOM 626	2HB	LEU A	45	155.071	9.532	-12.069	1.00	0.00
ATOM 627	HG	LEU A	45	154.444	9.371	-9.141	1.00	0.00
ATOM 628	1HD1	LEU A	45	153.934	7.217	-9.218	1.00	0.00
ATOM 629	2HD1	LEU A	45	155.393	6.869	-10.146	1.00	0.00
ATOM 630	3HD1	LEU A	45	153.903	7.308	-10.979	1.00	0.00
ATOM 631	1HD2	LEU A	45	156.882	8.155	-10.133	1.00	0.00
ATOM 632	2HD2	LEU A	45	156.657	9.388	-8.893	1.00	0.00
ATOM 633	3HD2	LEU A	45	156.754	9.853	-10.591	1.00	0.00
ATOM 634	N	ASN A	46	152.106	12.339	-10.702	1.00	0.00
ATOM 635	CA	ASN A	46	150.905	12.688	-9.956	1.00	0.00

ATOM 636	C	ASN A	46	149.929	11.517	-9.931	1.00	0.00
ATOM 637	O	ASN A	46	149.305	11.193	-10.942	1.00	0.00
ATOM 638	CB	ASN A	46	150.233	13.914	-10.577	1.00	0.00
ATOM 639	CG	ASN A	46	149.461	14.730	-9.558	1.00	0.00
ATOM 640	OD1	ASN A	46	150.024	15.208	-8.573	1.00	0.00
ATOM 641	ND2	ASN A	46	148.164	14.891	-9.790	1.00	0.00
ATOM 642	H	ASN A	46	152.249	12.722	-11.592	1.00	0.00
ATOM 643	HA	ASN A	46	151.197	12.921	-8.943	1.00	0.00
ATOM 644	1HB	ASN A	46	150.990	14.547	-11.017	1.00	0.00
ATOM 645	2HB	ASN A	46	149.548	13.590	-11.346	1.00	0.00
ATOM 646	1HD2	ASN A	46	147.782	14.480	-10.594	1.00	0.00
ATOM 647	2HD2	ASN A	46	147.640	15.414	-9.148	1.00	0.00
ATOM 648	N	GLU A	47	149.803	10.889	-8.768	1.00	0.00
ATOM 649	CA	GLU A	47	148.906	9.754	-8.603	1.00	0.00
ATOM 650	C	GLU A	47	148.706	9.434	-7.126	1.00	0.00
ATOM 651	O	GLU A	47	149.665	9.143	-6.412	1.00	0.00
ATOM 652	CB	GLU A	47	149.452	8.526	-9.334	1.00	0.00
ATOM 653	CG	GLU A	47	150.963	8.373	-9.232	1.00	0.00
ATOM 654	CD	GLU A	47	151.518	7.390	-10.243	1.00	0.00
ATOM 655	OE1	GLU A	47	151.557	7.732	-11.444	1.00	0.00
ATOM 656	OE2	GLU A	47	151.914	6.278	-9.835	1.00	0.00
ATOM 657	H	GLU A	47	150.329	11.196	-8.002	1.00	0.00
ATOM 658	HA	GLU A	47	147.951	10.022	-9.033	1.00	0.00
ATOM 659	1HB	GLU A	47	148.996	7.640	-8.917	1.00	0.00
ATOM 660	2HB	GLU A	47	149.189	8.596	-10.379	1.00	0.00
ATOM 661	1HG	GLU A	47	151.419	9.337	-9.401	1.00	0.00
ATOM 662	2HG	GLU A	47	151.213	8.027	-8.240	1.00	0.00
ATOM 663	N	VAL A	48	147.460	9.485	-6.673	1.00	0.00
ATOM 664	CA	VAL A	48	147.149	9.192	-5.280	1.00	0.00

ATOM 665	C	VAL A	48	147.473	7.740	-4.951	1.00	0.00
ATOM 666	O	VAL A	48	146.697	6.836	-5.256	1.00	0.00
ATOM 667	CB	VAL A	48	145.667	9.463	-4.963	1.00	0.00
ATOM 668	CG1	VAL A	48	145.413	9.366	-3.467	1.00	0.00
ATOM 669	CG2	VAL A	48	145.247	10.826	-5.495	1.00	0.00
ATOM 670	H	VAL A	48	146.733	9.719	-7.288	1.00	0.00
ATOM 671	HA	VAL A	48	147.756	9.837	-4.660	1.00	0.00
ATOM 672	HB	VAL A	48	145.070	8.709	-5.456	1.00	0.00
ATOM 673	1HG1	VAL A	48	146.110	10.003	-2.942	1.00	0.00
ATOM 674	2HG1	VAL A	48	145.547	8.344	-3.145	1.00	0.00
ATOM 675	3HG1	VAL A	48	144.403	9.683	-3.252	1.00	0.00
ATOM 676	1HG2	VAL A	48	146.102	11.483	-5.515	1.00	0.00
ATOM 677	2HG2	VAL A	48	144.486	11.244	-4.852	1.00	0.00
ATOM 678	3HG2	VAL A	48	144.853	10.716	-6.494	1.00	0.00
ATOM 679	N	LEU A	49	148.628	7.523	-4.329	1.00	0.00
ATOM 680	CA	LEU A	49	149.056	6.179	-3.963	1.00	0.00
ATOM 681	C	LEU A	49	148.967	5.975	-2.457	1.00	0.00
ATOM 682	O	LEU A	49	149.649	6.651	-1.687	1.00	0.00
ATOM 683	CB	LEU A	49	150.488	5.931	-4.439	1.00	0.00
ATOM 684	CG	LEU A	49	150.689	6.006	-5.954	1.00	0.00
ATOM 685	CD1	LEU A	49	152.159	6.205	-6.288	1.00	0.00
ATOM 686	CD2	LEU A	49	150.153	4.752	-6.626	1.00	0.00
ATOM 687	H	LEU A	49	149.206	8.286	-4.112	1.00	0.00
ATOM 688	HA	LEU A	49	148.397	5.477	-4.449	1.00	0.00
ATOM 689	1HB	LEU A	49	151.133	6.662	-3.974	1.00	0.00
ATOM 690	2HB	LEU A	49	150.789	4.948	-4.109	1.00	0.00
ATOM 691	HG	LEU A	49	150.142	6.855	-6.341	1.00	0.00
ATOM 692	1HD1	LEU A	49	152.669	5.254	-6.248	1.00	0.00
ATOM 693	2HD1	LEU A	49	152.603	6.881	-5.572	1.00	0.00

ATOM 694	3HD1	LEU A	49	152.250	6.621	-7.280	1.00	0.00
ATOM 695	1HD2	LEU A	49	149.135	4.922	-6.945	1.00	0.00
ATOM 696	2HD2	LEU A	49	150.178	3.930	-5.926	1.00	0.00
ATOM 697	3HD2	LEU A	49	150.763	4.513	-7.483	1.00	0.00
ATOM 698	N	ALA A	50	148.121	5.041	-2.041	1.00	0.00
ATOM 699	CA	ALA A	50	147.945	4.752	-0.626	1.00	0.00
ATOM 700	C	ALA A	50	148.882	3.638	-0.173	1.00	0.00
ATOM 701	O	ALA A	50	148.766	2.496	-0.616	1.00	0.00
ATOM 702	CB	ALA A	50	146.498	4.377	-0.339	1.00	0.00
ATOM 703	H	ALA A	50	147.603	4.535	-2.702	1.00	0.00
ATOM 704	HA	ALA A	50	148.175	5.652	-0.075	1.00	0.00
ATOM 705	1HB	ALA A	50	146.198	4.799	0.610	1.00	0.00
ATOM 706	2HB	ALA A	50	146.406	3.303	-0.300	1.00	0.00
ATOM 707	3HB	ALA A	50	145.864	4.766	-1.122	1.00	0.00
ATOM 708	N	GLY A	51	149.813	3.979	0.712	1.00	0.00
ATOM 709	CA	GLY A	51	150.760	2.998	1.211	1.00	0.00
ATOM 710	C	GLY A	51	150.106	1.965	2.109	1.00	0.00
ATOM 711	O	GLY A	51	149.797	2.248	3.266	1.00	0.00
ATOM 712	H	GLY A	51	149.860	4.905	1.030	1.00	0.00
ATOM 713	1HA	GLY A	51	151.212	2.492	0.370	1.00	0.00
ATOM 714	2HA	GLY A	51	151.530	3.507	1.769	1.00	0.00
ATOM 715	N	LEU A	52	149.894	0.768	1.575	1.00	0.00
ATOM 716	CA	LEU A	52	149.273	-0.310	2.338	1.00	0.00
ATOM 717	C	LEU A	52	150.326	-1.142	3.061	1.00	0.00
ATOM 718	O	LEU A	52	151.468	-1.243	2.613	1.00	0.00
ATOM 719	CB	LEU A	52	148.444	-1.205	1.414	1.00	0.00
ATOM 720	CG	LEU A	52	147.167	-0.566	0.868	1.00	0.00
ATOM 721	CD1	LEU A	52	146.575	-1.421	-0.242	1.00	0.00
ATOM 722	CD2	LEU A	52	146.154	-0.361	1.984	1.00	0.00

ATOM 723	H	LEU A	52	150.162	0.603	0.647	1.00	0.00
ATOM 724	HA	LEU A	52	148.619	0.139	3.071	1.00	0.00
ATOM 725	1HB	LEU A	52	149.064	-1.496	0.579	1.00	0.00
ATOM 726	2HB	LEU A	52	148.168	-2.094	1.963	1.00	0.00
ATOM 727	HG	LEU A	52	147.407	0.402	0.450	1.00	0.00
ATOM 728	1HD1	LEU A	52	146.553	-2.454	0.074	1.00	0.00
ATOM 729	2HD1	LEU A	52	147.181	-1.330	-1.131	1.00	0.00
ATOM 730	3HD1	LEU A	52	145.569	-1.089	-0.455	1.00	0.00
ATOM 731	1HD2	LEU A	52	145.155	-0.488	1.591	1.00	0.00
ATOM 732	2HD2	LEU A	52	146.258	0.636	2.386	1.00	0.00
ATOM 733	3HD2	LEU A	52	146.329	-1.085	2.765	1.00	0.00
ATOM 734	N	GLU A	53	149.934	-1.737	4.184	1.00	0.00
ATOM 735	CA	GLU A	53	150.845	-2.562	4.970	1.00	0.00
ATOM 736	C	GLU A	53	150.352	-4.005	5.036	1.00	0.00
ATOM 737	O	GLU A	53	149.404	-4.315	5.758	1.00	0.00
ATOM 738	CB	GLU A	53	150.988	-1.995	6.383	1.00	0.00
ATOM 739	CG	GLU A	53	151.949	-2.780	7.260	1.00	0.00
ATOM 740	CD	GLU A	53	151.396	-3.037	8.648	1.00	0.00
ATOM 741	OE1	GLU A	53	150.544	-2.245	9.104	1.00	0.00
ATOM 742	OE2	GLU A	53	151.814	-4.030	9.281	1.00	0.00
ATOM 743	H	GLU A	53	149.011	-1.619	4.490	1.00	0.00
ATOM 744	HA	GLU A	53	151.809	-2.545	4.486	1.00	0.00
ATOM 745	1HB	GLU A	53	151.345	-0.977	6.317	1.00	0.00
ATOM 746	2HB	GLU A	53	150.018	-1.995	6.859	1.00	0.00
ATOM 747	1HG	GLU A	53	152.150	-3.732	6.789	1.00	0.00
ATOM 748	2HG	GLU A	53	152.870	-2.223	7.353	1.00	0.00
ATOM 749	N	LEU A	54	151.002	-4.881	4.279	1.00	0.00
ATOM 750	CA	LEU A	54	150.631	-6.290	4.251	1.00	0.00
ATOM 751	C	LEU A	54	150.942	-6.961	5.585	1.00	0.00

ATOM 752	O	LEU A	54	152.009	-6.752	6.162	1.00	0.00
ATOM 753	CB	LEU A	54	151.366	-7.013	3.120	1.00	0.00
ATOM 754	CG	LEU A	54	151.264	-6.341	1.750	1.00	0.00
ATOM 755	CD1	LEU A	54	152.286	-6.930	0.790	1.00	0.00
ATOM 756	CD2	LEU A	54	149.857	-6.487	1.190	1.00	0.00
ATOM 757	H	LEU A	54	151.750	-4.573	3.725	1.00	0.00
ATOM 758	HA	LEU A	54	149.568	-6.349	4.072	1.00	0.00
ATOM 759	1HB	LEU A	54	152.412	-7.083	3.386	1.00	0.00
ATOM 760	2HB	LEU A	54	150.965	-8.011	3.037	1.00	0.00
ATOM 761	HG	LEU A	54	151.475	-5.287	1.856	1.00	0.00
ATOM 762	1HD1	LEU A	54	153.278	-6.623	1.087	1.00	0.00
ATOM 763	2HD1	LEU A	54	152.086	-6.576	-0.211	1.00	0.00
ATOM 764	3HD1	LEU A	54	152.221	-8.007	0.810	1.00	0.00
ATOM 765	1HD2	LEU A	54	149.404	-7.383	1.586	1.00	0.00
ATOM 766	2HD2	LEU A	54	149.904	-6.554	0.112	1.00	0.00
ATOM 767	3HD2	LEU A	54	149.266	-5.628	1.472	1.00	0.00
ATOM 768	N	GLU A	55	150.004	-7.769	6.069	1.00	0.00
ATOM 769	CA	GLU A	55	150.179	-8.471	7.335	1.00	0.00
ATOM 770	C	GLU A	55	151.238	-9.562	7.211	1.00	0.00
ATOM 771	O	GLU A	55	151.998	-9.812	8.146	1.00	0.00
ATOM 772	CB	GLU A	55	148.852	-9.081	7.792	1.00	0.00
ATOM 773	CG	GLU A	55	147.840	-8.051	8.264	1.00	0.00
ATOM 774	CD	GLU A	55	146.466	-8.647	8.494	1.00	0.00
ATOM 775	OE1	GLU A	55	146.189	-9.080	9.633	1.00	0.00
ATOM 776	OE2	GLU A	55	145.665	-8.681	7.536	1.00	0.00
ATOM 777	H	GLU A	55	149.175	-7.896	5.562	1.00	0.00
ATOM 778	HA	GLU A	55	150.505	-7.751	8.071	1.00	0.00
ATOM 779	1HB	GLU A	55	148.419	-9.629	6.968	1.00	0.00
ATOM 780	2HB	GLU A	55	149.045	-9.764	8.605	1.00	0.00

ATOM 781	1HG	GLU A	55	148.188	-7.621	9.191	1.00	0.00
ATOM 782	2HG	GLU A	55	147.759	-7.275	7.516	1.00	0.00
ATOM 783	N	ASP A	56	151.281	-10.208	6.050	1.00	0.00
ATOM 784	CA	ASP A	56	152.247	-11.271	5.804	1.00	0.00
ATOM 785	C	ASP A	56	153.564	-10.701	5.286	1.00	0.00
ATOM 786	O	ASP A	56	153.588	-9.960	4.303	1.00	0.00
ATOM 787	CB	ASP A	56	151.682	-12.279	4.800	1.00	0.00
ATOM 788	CG	ASP A	56	151.146	-13.527	5.473	1.00	0.00
ATOM 789	OD1	ASP A	56	151.658	-14.628	5.177	1.00	0.00
ATOM 790	OD2	ASP A	56	150.215	-13.404	6.297	1.00	0.00
ATOM 791	H	ASP A	56	150.649	-9.963	5.342	1.00	0.00
ATOM 792	HA	ASP A	56	152.431	-11.775	6.741	1.00	0.00
ATOM 793	1HB	ASP A	56	150.877	-11.816	4.249	1.00	0.00
ATOM 794	2HB	ASP A	56	152.463	-12.571	4.112	1.00	0.00
ATOM 795	N	GLU A	57	154.658	-11.051	5.955	1.00	0.00
ATOM 796	CA	GLU A	57	155.979	-10.573	5.561	1.00	0.00
ATOM 797	C	GLU A	57	156.430	-11.230	4.261	1.00	0.00
ATOM 798	O	GLU A	57	157.105	-12.259	4.276	1.00	0.00
ATOM 799	CB	GLU A	57	156.996	-10.855	6.669	1.00	0.00
ATOM 800	CG	GLU A	57	156.796	-10.001	7.910	1.00	0.00
ATOM 801	CD	GLU A	57	156.996	-10.782	9.194	1.00	0.00
ATOM 802	OE1	GLU A	57	157.428	-10.176	10.197	1.00	0.00
ATOM 803	OE2	GLU A	57	156.719	-12.000	9.197	1.00	0.00
ATOM 804	H	GLU A	57	154.576	-11.644	6.730	1.00	0.00
ATOM 805	HA	GLU A	57	155.913	-9.507	5.409	1.00	0.00
ATOM 806	1HB	GLU A	57	156.919	-11.893	6.957	1.00	0.00
ATOM 807	2HB	GLU A	57	157.988	-10.669	6.287	1.00	0.00
ATOM 808	1HG	GLU A	57	157.505	-9.187	7.890	1.00	0.00
ATOM 809	2HG	GLU A	57	155.792	-9.603	7.900	1.00	0.00

ATOM 810	N	CYS A	58	156.053	-10.627	3.138	1.00	0.00
ATOM 811	CA	CYS A	58	156.420	-11.154	1.829	1.00	0.00
ATOM 812	C	CYS A	58	157.732	-10.544	1.345	1.00	0.00
ATOM 813	O	CYS A	58	157.972	-9.349	1.513	1.00	0.00
ATOM 814	CB	CYS A	58	155.309	-10.874	0.814	1.00	0.00
ATOM 815	SG	CYS A	58	153.948	-12.062	0.864	1.00	0.00
ATOM 816	H	CYS A	58	155.515	-9.810	3.192	1.00	0.00
ATOM 817	HA	CYS A	58	156.546	-12.221	1.924	1.00	0.00
ATOM 818	1HB	CYS A	58	154.897	-9.894	1.005	1.00	0.00
ATOM 819	2HB	CYS A	58	155.729	-10.894	-0.181	1.00	0.00
ATOM 820	HG	CYS A	58	154.203	-12.781	1.445	1.00	0.00
ATOM 821	N	ALA A	59	158.577	-11.375	0.745	1.00	0.00
ATOM 822	CA	ALA A	59	159.865	-10.917	0.236	1.00	0.00
ATOM 823	C	ALA A	59	159.687	-10.014	-0.978	1.00	0.00
ATOM 824	O	ALA A	59	158.952	-10.344	-1.908	1.00	0.00
ATOM 825	CB	ALA A	59	160.746	-12.107	-0.115	1.00	0.00
ATOM 826	H	ALA A	59	158.330	-12.317	0.640	1.00	0.00
ATOM 827	HA	ALA A	59	160.353	-10.358	1.021	1.00	0.00
ATOM 828	1HB	ALA A	59	161.002	-12.643	0.787	1.00	0.00
ATOM 829	2HB	ALA A	59	161.648	-11.758	-0.595	1.00	0.00
ATOM 830	3HB	ALA A	59	160.213	-12.765	-0.786	1.00	0.00
ATOM 831	N	GLY A	60	160.363	-8.869	-0.962	1.00	0.00
ATOM 832	CA	GLY A	60	160.266	-7.934	-2.068	1.00	0.00
ATOM 833	C	GLY A	60	159.640	-6.615	-1.658	1.00	0.00
ATOM 834	O	GLY A	60	159.930	-5.573	-2.248	1.00	0.00
ATOM 835	H	GLY A	60	160.933	-8.658	-0.194	1.00	0.00
ATOM 836	1HA	GLY A	60	161.257	-7.746	-2.453	1.00	0.00
ATOM 837	2HA	GLY A	60	159.665	-8.377	-2.849	1.00	0.00
ATOM 838	N	CYS A	61	158.781	-6.658	-0.646	1.00	0.00

ATOM 839	CA	CYS A	61	158.113	-5.458	-0.159	1.00	0.00
ATOM 840	C	CYS A	61	159.094	-4.548	0.573	1.00	0.00
ATOM 841	O	CYS A	61	160.188	-4.971	0.946	1.00	0.00
ATOM 842	CB	CYS A	61	156.957	-5.833	0.770	1.00	0.00
ATOM 843	SG	CYS A	61	155.776	-6.994	0.047	1.00	0.00
ATOM 844	H	CYS A	61	158.591	-7.518	-0.217	1.00	0.00
ATOM 845	HA	CYS A	61	157.718	-4.928	-1.013	1.00	0.00
ATOM 846	1HB	CYS A	61	157.357	-6.289	1.665	1.00	0.00
ATOM 847	2HB	CYS A	61	156.416	-4.937	1.040	1.00	0.00
ATOM 848	HG	CYS A	61	156.044	-7.882	0.292	1.00	0.00
ATOM 849	N	THR A	62	158.695	-3.297	0.777	1.00	0.00
ATOM 850	CA	THR A	62	159.539	-2.327	1.465	1.00	0.00
ATOM 851	C	THR A	62	159.139	-2.201	2.932	1.00	0.00
ATOM 852	O	THR A	62	158.254	-2.912	3.407	1.00	0.00
ATOM 853	CB	THR A	62	159.447	-0.963	0.780	1.00	0.00
ATOM 854	OG1	THR A	62	158.176	-0.787	0.179	1.00	0.00
ATOM 855	CG2	THR A	62	160.493	-0.761	-0.297	1.00	0.00
ATOM 856	H	THR A	62	157.811	-3.019	0.456	1.00	0.00
ATOM 857	HA	THR A	62	160.558	-2.679	1.411	1.00	0.00
ATOM 858	HB	THR A	62	159.582	-0.189	1.521	1.00	0.00
ATOM 859	HG1	THR A	62	157.510	-0.686	0.864	1.00	0.00
ATOM 860	1HG2	THR A	62	160.029	-0.340	-1.175	1.00	0.00
ATOM 861	2HG2	THR A	62	160.940	-1.712	-0.546	1.00	0.00
ATOM 862	3HG2	THR A	62	161.257	-0.089	0.066	1.00	0.00
ATOM 863	N	ASP A	63	159.797	-1.291	3.642	1.00	0.00
ATOM 864	CA	ASP A	63	159.510	-1.071	5.055	1.00	0.00
ATOM 865	C	ASP A	63	158.823	0.274	5.267	1.00	0.00
ATOM 866	O	ASP A	63	158.994	0.913	6.306	1.00	0.00
ATOM 867	CB	ASP A	63	160.800	-1.132	5.874	1.00	0.00

ATOM 868	CG	ASP A	63	161.816	-0.098	5.431	1.00	0.00
ATOM 869	OD1	ASP A	63	162.969	-0.483	5.143	1.00	0.00
ATOM 870	OD2	ASP A	63	161.459	1.098	5.371	1.00	0.00
ATOM 871	H	ASP A	63	160.492	-0.755	3.207	1.00	0.00
ATOM 872	HA	ASP A	63	158.847	-1.857	5.385	1.00	0.00
ATOM 873	1HB	ASP A	63	160.568	-0.958	6.914	1.00	0.00
ATOM 874	2HB	ASP A	63	161.241	-2.113	5.768	1.00	0.00
ATOM 875	N	GLY A	64	158.045	0.698	4.277	1.00	0.00
ATOM 876	CA	GLY A	64	157.344	1.966	4.375	1.00	0.00
ATOM 877	C	GLY A	64	158.028	3.069	3.593	1.00	0.00
ATOM 878	O	GLY A	64	158.120	4.204	4.059	1.00	0.00
ATOM 879	H	GLY A	64	157.946	0.148	3.473	1.00	0.00
ATOM 880	1HA	GLY A	64	156.341	1.839	3.997	1.00	0.00
ATOM 881	2HA	GLY A	64	157.292	2.255	5.414	1.00	0.00
ATOM 882	N	THR A	65	158.508	2.736	2.400	1.00	0.00
ATOM 883	CA	THR A	65	159.188	3.707	1.550	1.00	0.00
ATOM 884	C	THR A	65	158.823	3.496	0.083	1.00	0.00
ATOM 885	O	THR A	65	158.776	2.365	-0.399	1.00	0.00
ATOM 886	CB	THR A	65	160.703	3.602	1.730	1.00	0.00
ATOM 887	OG1	THR A	65	161.154	2.295	1.424	1.00	0.00
ATOM 888	CG2	THR A	65	161.162	3.928	3.135	1.00	0.00
ATOM 889	H	THR A	65	158.403	1.814	2.083	1.00	0.00
ATOM 890	HA	THR A	65	158.865	4.692	1.850	1.00	0.00
ATOM 891	HB	THR A	65	161.184	4.295	1.056	1.00	0.00
ATOM 892	HG1	THR A	65	160.864	2.054	0.541	1.00	0.00
ATOM 893	1HG2	THR A	65	160.333	4.326	3.701	1.00	0.00
ATOM 894	2HG2	THR A	65	161.954	4.661	3.094	1.00	0.00
ATOM 895	3HG2	THR A	65	161.526	3.031	3.613	1.00	0.00
ATOM 896	N	PHE A	66	158.565	4.594	-0.621	1.00	0.00

ATOM 897	CA	PHE A	66	158.205	4.530	-2.032	1.00	0.00
ATOM 898	C	PHE A	66	159.340	5.050	-2.907	1.00	0.00
ATOM 899	O	PHE A	66	159.609	6.250	-2.942	1.00	0.00
ATOM 900	CB	PHE A	66	156.933	5.338	-2.293	1.00	0.00
ATOM 901	CG	PHE A	66	156.226	4.951	-3.560	1.00	0.00
ATOM 902	CD1	PHE A	66	155.795	3.648	-3.758	1.00	0.00
ATOM 903	CD2	PHE A	66	155.992	5.888	-4.553	1.00	0.00
ATOM 904	CE1	PHE A	66	155.145	3.289	-4.923	1.00	0.00
ATOM 905	CE2	PHE A	66	155.343	5.534	-5.721	1.00	0.00
ATOM 906	CZ	PHE A	66	154.919	4.232	-5.906	1.00	0.00
ATOM 907	H	PHE A	66	158.618	5.468	-0.181	1.00	0.00
ATOM 908	HA	PHE A	66	158.020	3.494	-2.280	1.00	0.00
ATOM 909	1HB	PHE A	66	156.247	5.191	-1.472	1.00	0.00
ATOM 910	2HB	PHE A	66	157.188	6.385	-2.360	1.00	0.00
ATOM 911	HD1	PHE A	66	155.971	2.909	-2.990	1.00	0.00
ATOM 912	HD2	PHE A	66	156.324	6.906	-4.409	1.00	0.00
ATOM 913	HE1	PHE A	66	154.815	2.270	-5.065	1.00	0.00
ATOM 914	HE2	PHE A	66	155.167	6.273	-6.487	1.00	0.00
ATOM 915	HZ	PHE A	66	154.411	3.953	-6.818	1.00	0.00
ATOM 916	N	ARG A	67	160.001	4.139	-3.614	1.00	0.00
ATOM 917	CA	ARG A	67	161.107	4.506	-4.490	1.00	0.00
ATOM 918	C	ARG A	67	162.211	5.212	-3.708	1.00	0.00
ATOM 919	O	ARG A	67	162.933	6.048	-4.251	1.00	0.00
ATOM 920	CB	ARG A	67	160.612	5.408	-5.622	1.00	0.00
ATOM 921	CG	ARG A	67	159.489	4.794	-6.441	1.00	0.00
ATOM 922	CD	ARG A	67	158.923	5.788	-7.443	1.00	0.00
ATOM 923	NE	ARG A	67	157.777	5.245	-8.167	1.00	0.00
ATOM 924	CZ	ARG A	67	157.880	4.402	-9.192	1.00	0.00
ATOM 925	NH1	ARG A	67	159.073	4.005	-9.618	1.00	0.00

ATOM 926	NH2	ARG A	67	156.787	3.955	-9.795	1.00	0.00
ATOM 927	H	ARG A	67	159.739	3.197	-3.544	1.00	0.00
ATOM 928	HA	ARG A	67	161.509	3.598	-4.915	1.00	0.00
ATOM 929	1HB	ARG A	67	160.253	6.334	-5.197	1.00	0.00
ATOM 930	2HB	ARG A	67	161.437	5.622	-6.285	1.00	0.00
ATOM 931	1HG	ARG A	67	159.873	3.939	-6.977	1.00	0.00
ATOM 932	2HG	ARG A	67	158.699	4.480	-5.775	1.00	0.00
ATOM 933	1HD	ARG A	67	158.613	6.677	-6.912	1.00	0.00
ATOM 934	2HD	ARG A	67	159.697	6.046	-8.152	1.00	0.00
ATOM 935	HE	ARG A	67	156.884	5.521	-7.874	1.00	0.00
ATOM 936	1HH1	ARG A	67	159.902	4.339	-9.169	1.00	0.00
ATOM 937	2HH1	ARG A	67	159.143	3.372	-10.389	1.00	0.00
ATOM 938	1HH2	ARG A	67	155.885	4.251	-9.479	1.00	0.00
ATOM 939	2HH2	ARG A	67	156.864	3.323	-10.566	1.00	0.00
ATOM 940	N	GLY A	68	162.335	4.871	-2.429	1.00	0.00
ATOM 941	CA	GLY A	68	163.353	5.483	-1.595	1.00	0.00
ATOM 942	C	GLY A	68	162.794	6.570	-0.696	1.00	0.00
ATOM 943	O	GLY A	68	163.408	6.925	0.310	1.00	0.00
ATOM 944	H	GLY A	68	161.732	4.199	-2.049	1.00	0.00
ATOM 945	1HA	GLY A	68	163.803	4.719	-0.979	1.00	0.00
ATOM 946	2HA	GLY A	68	164.112	5.912	-2.231	1.00	0.00
ATOM 947	N	THR A	69	161.630	7.102	-1.058	1.00	0.00
ATOM 948	CA	THR A	69	160.995	8.154	-0.275	1.00	0.00
ATOM 949	C	THR A	69	160.179	7.565	0.871	1.00	0.00
ATOM 950	O	THR A	69	159.128	6.961	0.651	1.00	0.00
ATOM 951	CB	THR A	69	160.098	9.013	-1.167	1.00	0.00
ATOM 952	OG1	THR A	69	160.773	9.370	-2.361	1.00	0.00
ATOM 953	CG2	THR A	69	159.637	10.290	-0.501	1.00	0.00
ATOM 954	H	THR A	69	161.188	6.779	-1.870	1.00	0.00

ATOM 955	HA	THR A	69	161.776	8.776	0.139	1.00	0.00
ATOM 956	HB	THR A	69	159.220	8.442	-1.432	1.00	0.00
ATOM 957	HG1	THR A	69	161.532	9.917	-2.148	1.00	0.00
ATOM 958	1HG2	THR A	69	159.314	10.994	-1.255	1.00	0.00
ATOM 959	2HG2	THR A	69	160.453	10.717	0.064	1.00	0.00
ATOM 960	3HG2	THR A	69	158.814	10.073	0.164	1.00	0.00
ATOM 961	N	ARG A	70	160.668	7.743	2.093	1.00	0.00
ATOM 962	CA	ARG A	70	159.984	7.230	3.273	1.00	0.00
ATOM 963	C	ARG A	70	158.798	8.116	3.643	1.00	0.00
ATOM 964	O	ARG A	70	158.936	9.332	3.770	1.00	0.00
ATOM 965	CB	ARG A	70	160.953	7.139	4.452	1.00	0.00
ATOM 966	CG	ARG A	70	160.326	6.570	5.714	1.00	0.00
ATOM 967	CD	ARG A	70	160.985	7.127	6.965	1.00	0.00
ATOM 968	NE	ARG A	70	162.129	6.321	7.387	1.00	0.00
ATOM 969	CZ	ARG A	70	162.855	6.575	8.472	1.00	0.00
ATOM 970	NH1	ARG A	70	162.559	7.610	9.250	1.00	0.00
ATOM 971	NH2	ARG A	70	163.880	5.793	8.782	1.00	0.00
ATOM 972	H	ARG A	70	161.509	8.234	2.205	1.00	0.00
ATOM 973	HA	ARG A	70	159.619	6.241	3.041	1.00	0.00
ATOM 974	1HB	ARG A	70	161.783	6.507	4.174	1.00	0.00
ATOM 975	2HB	ARG A	70	161.325	8.128	4.676	1.00	0.00
ATOM 976	1HG	ARG A	70	159.277	6.825	5.730	1.00	0.00
ATOM 977	2HG	ARG A	70	160.437	5.495	5.708	1.00	0.00
ATOM 978	1HD	ARG A	70	161.321	8.133	6.762	1.00	0.00
ATOM 979	2HD	ARG A	70	160.257	7.147	7.763	1.00	0.00
ATOM 980	HE	ARG A	70	162.369	5.551	6.830	1.00	0.00
ATOM 981	1HH1	ARG A	70	161.788	8.203	9.022	1.00	0.00
ATOM 982	2HH1	ARG A	70	163.108	7.795	10.066	1.00	0.00
ATOM 983	1HH2	ARG A	70	164.106	5.012	8.201	1.00	0.00

ATOM 984	2HH2	ARG A	70	164.426	5.984	9.599	1.00	0.00
ATOM 985	N	TYR A	71	157.633	7.498	3.811	1.00	0.00
ATOM 986	CA	TYR A	71	156.424	8.231	4.165	1.00	0.00
ATOM 987	C	TYR A	71	155.976	7.891	5.583	1.00	0.00
ATOM 988	O	TYR A	71	155.657	8.779	6.373	1.00	0.00
ATOM 989	CB	TYR A	71	155.302	7.914	3.175	1.00	0.00
ATOM 990	CG	TYR A	71	155.508	8.530	1.808	1.00	0.00
ATOM 991	CD1	TYR A	71	155.560	9.908	1.648	1.00	0.00
ATOM 992	CD2	TYR A	71	155.651	7.731	0.681	1.00	0.00
ATOM 993	CE1	TYR A	71	155.748	10.475	0.401	1.00	0.00
ATOM 994	CE2	TYR A	71	155.840	8.290	-0.569	1.00	0.00
ATOM 995	CZ	TYR A	71	155.888	9.661	-0.703	1.00	0.00
ATOM 996	OH	TYR A	71	156.075	10.221	-1.946	1.00	0.00
ATOM 997	H	TYR A	71	157.587	6.526	3.695	1.00	0.00
ATOM 998	HA	TYR A	71	156.648	9.286	4.115	1.00	0.00
ATOM 999	1HB	TYR A	71	155.234	6.844	3.048	1.00	0.00
ATOM 1000	2HB	TYR A	71	154.368	8.285	3.569	1.00	0.00
ATOM 1001	HD1	TYR A	71	155.450	10.542	2.515	1.00	0.00
ATOM 1002	HD2	TYR A	71	155.613	6.657	0.788	1.00	0.00
ATOM 1003	HE1	TYR A	71	155.785	11.549	0.297	1.00	0.00
ATOM 1004	HE2	TYR A	71	155.950	7.654	-1.435	1.00	0.00
ATOM 1005	HH	TYR A	71	155.283	10.101	-2.476	1.00	0.00
ATOM 1006	N	PHE A	72	155.956	6.600	5.898	1.00	0.00
ATOM 1007	CA	PHE A	72	155.548	6.144	7.222	1.00	0.00
ATOM 1008	C	PHE A	72	156.530	5.113	7.768	1.00	0.00
ATOM 1009	O	PHE A	72	157.388	4.612	7.042	1.00	0.00
ATOM 1010	CB	PHE A	72	154.141	5.546	7.167	1.00	0.00
ATOM 1011	CG	PHE A	72	153.971	4.509	6.093	1.00	0.00
ATOM 1012	CD1	PHE A	72	153.819	4.884	4.768	1.00	0.00

ATOM 1013	CD2	PHE A	72	153.963	3.161	6.410	1.00	0.00
ATOM 1014	CE1	PHE A	72	153.663	3.932	3.779	1.00	0.00
ATOM 1015	CE2	PHE A	72	153.806	2.204	5.425	1.00	0.00
ATOM 1016	CZ	PHE A	72	153.657	2.590	4.107	1.00	0.00
ATOM 1017	H	PHE A	72	156.222	5.940	5.226	1.00	0.00
ATOM 1018	HA	PHE A	72	155.540	7.000	7.880	1.00	0.00
ATOM 1019	1HB	PHE A	72	153.917	5.082	8.115	1.00	0.00
ATOM 1020	2HB	PHE A	72	153.428	6.338	6.982	1.00	0.00
ATOM 1021	HD1	PHE A	72	153.824	5.932	4.509	1.00	0.00
ATOM 1022	HD2	PHE A	72	154.080	2.857	7.440	1.00	0.00
ATOM 1023	HE1	PHE A	72	153.545	4.237	2.749	1.00	0.00
ATOM 1024	HE2	PHE A	72	153.803	1.155	5.685	1.00	0.00
ATOM 1025	HZ	PHE A	72	153.534	1.844	3.335	1.00	0.00
ATOM 1026	N	THR A	73	156.397	4.800	9.053	1.00	0.00
ATOM 1027	CA	THR A	73	157.272	3.828	9.698	1.00	0.00
ATOM 1028	C	THR A	73	156.519	2.538	10.005	1.00	0.00
ATOM 1029	O	THR A	73	155.738	2.473	10.954	1.00	0.00
ATOM 1030	CB	THR A	73	157.854	4.411	10.986	1.00	0.00
ATOM 1031	OG1	THR A	73	158.089	5.800	10.847	1.00	0.00
ATOM 1032	CG2	THR A	73	159.160	3.764	11.400	1.00	0.00
ATOM 1033	H	THR A	73	155.693	5.232	9.581	1.00	0.00
ATOM 1034	HA	THR A	73	158.080	3.606	9.016	1.00	0.00
ATOM 1035	HB	THR A	73	157.145	4.265	11.788	1.00	0.00
ATOM 1036	HG1	THR A	73	158.193	6.197	11.715	1.00	0.00
ATOM 1037	1HG2	THR A	73	159.299	3.884	12.464	1.00	0.00
ATOM 1038	2HG2	THR A	73	159.977	4.235	10.874	1.00	0.00
ATOM 1039	3HG2	THR A	73	159.133	2.712	11.155	1.00	0.00
ATOM 1040	N	CYS A	74	156.759	1.511	9.195	1.00	0.00
ATOM 1041	CA	CYS A	74	156.104	0.222	9.380	1.00	0.00

ATOM 1042	C	CYS A	74	157.120	-0.916	9.346	1.00	0.00
ATOM 1043	O	CYS A	74	158.299	-0.699	9.070	1.00	0.00
ATOM 1044	CB	CYS A	74	155.043	0.005	8.299	1.00	0.00
ATOM 1045	SG	CYS A	74	153.400	0.615	8.745	1.00	0.00
ATOM 1046	H	CYS A	74	157.392	1.624	8.455	1.00	0.00
ATOM 1047	HA	CYS A	74	155.623	0.231	10.346	1.00	0.00
ATOM 1048	1HB	CYS A	74	155.349	0.516	7.398	1.00	0.00
ATOM 1049	2HB	CYS A	74	154.958	-1.052	8.095	1.00	0.00
ATOM 1050	HG	CYS A	74	153.461	1.565	8.873	1.00	0.00
ATOM 1051	N	ALA A	75	156.654	-2.127	9.629	1.00	0.00
ATOM 1052	CA	ALA A	75	157.521	-3.299	9.631	1.00	0.00
ATOM 1053	C	ALA A	75	158.160	-3.510	8.263	1.00	0.00
ATOM 1054	O	ALA A	75	157.646	-3.043	7.247	1.00	0.00
ATOM 1055	CB	ALA A	75	156.737	-4.534	10.046	1.00	0.00
ATOM 1056	H	ALA A	75	155.703	-2.236	9.841	1.00	0.00
ATOM 1057	HA	ALA A	75	158.301	-3.134	10.359	1.00	0.00
ATOM 1058	1HB	ALA A	75	157.146	-5.403	9.551	1.00	0.00
ATOM 1059	2HB	ALA A	75	155.701	-4.415	9.767	1.00	0.00
ATOM 1060	3HB	ALA A	75	156.810	-4.663	11.116	1.00	0.00
ATOM 1061	N	LEU A	76	159.285	-4.219	8.243	1.00	0.00
ATOM 1062	CA	LEU A	76	159.994	-4.493	6.999	1.00	0.00
ATOM 1063	C	LEU A	76	159.283	-5.576	6.194	1.00	0.00
ATOM 1064	O	LEU A	76	158.703	-6.503	6.759	1.00	0.00
ATOM 1065	CB	LEU A	76	161.433	-4.921	7.291	1.00	0.00
ATOM 1066	CG	LEU A	76	162.351	-3.804	7.794	1.00	0.00
ATOM 1067	CD1	LEU A	76	162.435	-3.826	9.312	1.00	0.00
ATOM 1068	CD2	LEU A	76	163.736	-3.934	7.179	1.00	0.00
ATOM 1069	H	LEU A	76	159.645	-4.567	9.085	1.00	0.00
ATOM 1070	HA	LEU A	76	160.009	-3.583	6.419	1.00	0.00

ATOM 1071	1HB	LEU A	76	161.410	-5.702	8.036	1.00	0.00
ATOM 1072	2HB	LEU A	76	161.858	-5.324	6.383	1.00	0.00
ATOM 1073	HG	LEU A	76	161.940	-2.849	7.497	1.00	0.00
ATOM 1074	1HD1	LEU A	76	162.427	-4.848	9.658	1.00	0.00
ATOM 1075	2HD1	LEU A	76	161.591	-3.298	9.728	1.00	0.00
ATOM 1076	3HD1	LEU A	76	163.350	-3.346	9.628	1.00	0.00
ATOM 1077	1HD2	LEU A	76	163.645	-4.063	6.111	1.00	0.00
ATOM 1078	2HD2	LEU A	76	164.240	-4.790	7.603	1.00	0.00
ATOM 1079	3HD2	LEU A	76	164.307	-3.041	7.386	1.00	0.00
ATOM 1080	N	LYS A	77	159.332	-5.452	4.872	1.00	0.00
ATOM 1081	CA	LYS A	77	158.692	-6.421	3.989	1.00	0.00
ATOM 1082	C	LYS A	77	157.190	-6.481	4.245	1.00	0.00
ATOM 1083	O	LYS A	77	156.565	-7.528	4.083	1.00	0.00
ATOM 1084	CB	LYS A	77	159.310	-7.807	4.186	1.00	0.00
ATOM 1085	CG	LYS A	77	160.806	-7.849	3.921	1.00	0.00
ATOM 1086	CD	LYS A	77	161.117	-7.641	2.448	1.00	0.00
ATOM 1087	CE	LYS A	77	162.396	-6.843	2.255	1.00	0.00
ATOM 1088	NZ	LYS A	77	163.575	-7.532	2.849	1.00	0.00
ATOM 1089	H	LYS A	77	159.809	-4.692	4.480	1.00	0.00
ATOM 1090	HA	LYS A	77	158.860	-6.103	2.971	1.00	0.00
ATOM 1091	1HB	LYS A	77	159.138	-8.124	5.203	1.00	0.00
ATOM 1092	2HB	LYS A	77	158.828	-8.502	3.515	1.00	0.00
ATOM 1093	1HG	LYS A	77	161.285	-7.069	4.493	1.00	0.00
ATOM 1094	2HG	LYS A	77	161.190	-8.811	4.228	1.00	0.00
ATOM 1095	1HD	LYS A	77	161.231	-8.604	1.973	1.00	0.00
ATOM 1096	2HD	LYS A	77	160.298	-7.107	1.989	1.00	0.00
ATOM 1097	1HE	LYS A	77	162.566	-6.708	1.197	1.00	0.00
ATOM 1098	2HE	LYS A	77	162.279	-5.879	2.726	1.00	0.00
ATOM 1099	1HZ	LYS A	77	163.556	-8.544	2.608	1.00	0.00

ATOM 1100	2HZ	LYS A	77	163.563	-7.433	3.884	1.00	0.00
ATOM 1101	3HZ	LYS A	77	164.455	-7.116	2.482	1.00	0.00
ATOM 1102	N	LYS A	78	156.617	-5.350	4.644	1.00	0.00
ATOM 1103	CA	LYS A	78	155.188	-5.274	4.922	1.00	0.00
ATOM 1104	C	LYS A	78	154.619	-3.926	4.490	1.00	0.00
ATOM 1105	O	LYS A	78	153.788	-3.339	5.184	1.00	0.00
ATOM 1106	CB	LYS A	78	154.924	-5.500	6.412	1.00	0.00
ATOM 1107	CG	LYS A	78	155.426	-6.841	6.922	1.00	0.00
ATOM 1108	CD	LYS A	78	155.126	-7.022	8.401	1.00	0.00
ATOM 1109	CE	LYS A	78	153.865	-7.842	8.618	1.00	0.00
ATOM 1110	NZ	LYS A	78	153.075	-7.350	9.780	1.00	0.00
ATOM 1111	H	LYS A	78	157.169	-4.548	4.754	1.00	0.00
ATOM 1112	HA	LYS A	78	154.699	-6.054	4.357	1.00	0.00
ATOM 1113	1HB	LYS A	78	155.414	-4.719	6.974	1.00	0.00
ATOM 1114	2HB	LYS A	78	153.860	-5.447	6.589	1.00	0.00
ATOM 1115	1HG	LYS A	78	154.941	-7.631	6.368	1.00	0.00
ATOM 1116	2HG	LYS A	78	156.494	-6.896	6.771	1.00	0.00
ATOM 1117	1HD	LYS A	78	155.958	-7.528	8.868	1.00	0.00
ATOM 1118	2HD	LYS A	78	154.995	-6.049	8.853	1.00	0.00
ATOM 1119	1HE	LYS A	78	153.256	-7.784	7.728	1.00	0.00
ATOM 1120	2HE	LYS A	78	154.146	-8.870	8.794	1.00	0.00
ATOM 1121	1HZ	LYS A	78	153.198	-6.322	9.886	1.00	0.00
ATOM 1122	2HZ	LYS A	78	153.391	-7.818	10.652	1.00	0.00
ATOM 1123	3HZ	LYS A	78	152.065	-7.553	9.636	1.00	0.00
ATOM 1124	N	ALA A	79	155.073	-3.438	3.340	1.00	0.00
ATOM 1125	CA	ALA A	79	154.611	-2.159	2.815	1.00	0.00
ATOM 1126	C	ALA A	79	154.473	-2.206	1.297	1.00	0.00
ATOM 1127	O	ALA A	79	155.469	-2.255	0.575	1.00	0.00
ATOM 1128	CB	ALA A	79	155.562	-1.046	3.227	1.00	0.00

ATOM 1129	H	ALA A	79	155.735	-3.953	2.831	1.00	0.00
ATOM 1130	HA	ALA A	79	153.643	-1.953	3.249	1.00	0.00
ATOM 1131	1HB	ALA A	79	156.567	-1.436	3.292	1.00	0.00
ATOM 1132	2HB	ALA A	79	155.265	-0.656	4.190	1.00	0.00
ATOM 1133	3HB	ALA A	79	155.529	-0.255	2.494	1.00	0.00
ATOM 1134	N	LEU A	80	153.233	-2.190	0.821	1.00	0.00
ATOM 1135	CA	LEU A	80	152.964	-2.230	-0.613	1.00	0.00
ATOM 1136	C	LEU A	80	152.171	-1.005	-1.052	1.00	0.00
ATOM 1137	O	LEU A	80	151.011	-0.836	-0.677	1.00	0.00
ATOM 1138	CB	LEU A	80	152.198	-3.505	-0.972	1.00	0.00
ATOM 1139	CG	LEU A	80	151.803	-3.630	-2.444	1.00	0.00
ATOM 1140	CD1	LEU A	80	152.954	-4.198	-3.260	1.00	0.00
ATOM 1141	CD2	LEU A	80	150.564	-4.499	-2.591	1.00	0.00
ATOM 1142	H	LEU A	80	152.480	-2.151	1.447	1.00	0.00
ATOM 1143	HA	LEU A	80	153.913	-2.235	-1.128	1.00	0.00
ATOM 1144	1HB	LEU A	80	152.812	-4.355	-0.712	1.00	0.00
ATOM 1145	2HB	LEU A	80	151.297	-3.538	-0.379	1.00	0.00
ATOM 1146	HG	LEU A	80	151.573	-2.648	-2.834	1.00	0.00
ATOM 1147	1HD1	LEU A	80	153.063	-5.251	-3.044	1.00	0.00
ATOM 1148	2HD1	LEU A	80	153.868	-3.683	-3.001	1.00	0.00
ATOM 1149	3HD1	LEU A	80	152.752	-4.064	-4.312	1.00	0.00
ATOM 1150	1HD2	LEU A	80	149.693	-3.939	-2.281	1.00	0.00
ATOM 1151	2HD2	LEU A	80	150.665	-5.378	-1.973	1.00	0.00
ATOM 1152	3HD2	LEU A	80	150.452	-4.796	-3.624	1.00	0.00
ATOM 1153	N	PHE A	81	152.805	-0.150	-1.849	1.00	0.00
ATOM 1154	CA	PHE A	81	152.158	1.061	-2.340	1.00	0.00
ATOM 1155	C	PHE A	81	151.313	0.763	-3.574	1.00	0.00
ATOM 1156	O	PHE A	81	151.726	0.010	-4.455	1.00	0.00
ATOM 1157	CB	PHE A	81	153.206	2.125	-2.670	1.00	0.00

ATOM 1158	CG	PHE A	81	153.920	2.660	-1.461	1.00	0.00
ATOM 1159	CD1	PHE A	81	153.537	3.860	-0.888	1.00	0.00
ATOM 1160	CD2	PHE A	81	154.977	1.960	-0.900	1.00	0.00
ATOM 1161	CE1	PHE A	81	154.192	4.354	0.224	1.00	0.00
ATOM 1162	CE2	PHE A	81	155.636	2.449	0.211	1.00	0.00
ATOM 1163	CZ	PHE A	81	155.243	3.648	0.774	1.00	0.00
ATOM 1164	H	PHE A	81	153.730	-0.339	-2.114	1.00	0.00
ATOM 1165	HA	PHE A	81	151.514	1.433	-1.557	1.00	0.00
ATOM 1166	1HB	PHE A	81	153.945	1.700	-3.332	1.00	0.00
ATOM 1167	2HB	PHE A	81	152.722	2.955	-3.165	1.00	0.00
ATOM 1168	HD1	PHE A	81	152.714	4.414	-1.317	1.00	0.00
ATOM 1169	HD2	PHE A	81	155.285	1.023	-1.339	1.00	0.00
ATOM 1170	HE1	PHE A	81	153.883	5.292	0.661	1.00	0.00
ATOM 1171	HE2	PHE A	81	156.457	1.894	0.641	1.00	0.00
ATOM 1172	HZ	PHE A	81	155.757	4.032	1.644	1.00	0.00
ATOM 1173	N	VAL A	82	150.126	1.359	-3.631	1.00	0.00
ATOM 1174	CA	VAL A	82	149.223	1.158	-4.757	1.00	0.00
ATOM 1175	C	VAL A	82	148.323	2.371	-4.966	1.00	0.00
ATOM 1176	O	VAL A	82	148.239	3.249	-4.107	1.00	0.00
ATOM 1177	CB	VAL A	82	148.343	-0.089	-4.555	1.00	0.00
ATOM 1178	CG1	VAL A	82	149.177	-1.357	-4.665	1.00	0.00
ATOM 1179	CG2	VAL A	82	147.629	-0.028	-3.213	1.00	0.00
ATOM 1180	H	VAL A	82	149.852	1.950	-2.898	1.00	0.00
ATOM 1181	HA	VAL A	82	149.823	1.010	-5.643	1.00	0.00
ATOM 1182	HB	VAL A	82	147.596	-0.109	-5.334	1.00	0.00
ATOM 1183	1HG1	VAL A	82	149.983	-1.321	-3.947	1.00	0.00
ATOM 1184	2HG1	VAL A	82	149.587	-1.432	-5.661	1.00	0.00
ATOM 1185	3HG1	VAL A	82	148.556	-2.216	-4.465	1.00	0.00
ATOM 1186	1HG2	VAL A	82	146.883	-0.806	-3.165	1.00	0.00

ATOM 1187	2HG2	VAL	A	82	147.152	0.935	-3.103	1.00	0.00
ATOM 1188	3HG2	VAL	A	82	148.346	-0.167	-2.417	1.00	0.00
ATOM 1189	N	LYS	A	83	147.653	2.413	-6.112	1.00	0.00
ATOM 1190	CA	LYS	A	83	146.759	3.518	-6.435	1.00	0.00
ATOM 1191	C	LYS	A	83	145.547	3.527	-5.510	1.00	0.00
ATOM 1192	O	LYS	A	83	144.812	2.544	-5.422	1.00	0.00
ATOM 1193	CB	LYS	A	83	146.301	3.423	-7.892	1.00	0.00
ATOM 1194	CG	LYS	A	83	147.421	3.629	-8.897	1.00	0.00
ATOM 1195	CD	LYS	A	83	147.023	3.147	-10.283	1.00	0.00
ATOM 1196	CE	LYS	A	83	147.507	4.099	-11.366	1.00	0.00
ATOM 1197	NZ	LYS	A	83	147.866	3.380	-12.619	1.00	0.00
ATOM 1198	H	LYS	A	83	147.762	1.683	-6.757	1.00	0.00
ATOM 1199	HA	LYS	A	83	147.306	4.439	-6.299	1.00	0.00
ATOM 1200	1HB	LYS	A	83	145.873	2.445	-8.058	1.00	0.00
ATOM 1201	2HB	LYS	A	83	145.544	4.173	-8.070	1.00	0.00
ATOM 1202	1HG	LYS	A	83	147.658	4.682	-8.948	1.00	0.00
ATOM 1203	2HG	LYS	A	83	148.292	3.079	-8.570	1.00	0.00
ATOM 1204	1HD	LYS	A	83	147.459	2.174	-10.454	1.00	0.00
ATOM 1205	2HD	LYS	A	83	145.947	3.075	-10.333	1.00	0.00
ATOM 1206	1HE	LYS	A	83	146.721	4.808	-11.580	1.00	0.00
ATOM 1207	2HE	LYS	A	83	148.376	4.627	-11.001	1.00	0.00
ATOM 1208	1HZ	LYS	A	83	147.045	3.341	-13.256	1.00	0.00
ATOM 1209	2HZ	LYS	A	83	148.167	2.410	-12.400	1.00	0.00
ATOM 1210	3HZ	LYS	A	83	148.645	3.872	-13.102	1.00	0.00
ATOM 1211	N	LEU	A	84	145.347	4.646	-4.823	1.00	0.00
ATOM 1212	CA	LEU	A	84	144.226	4.791	-3.902	1.00	0.00
ATOM 1213	C	LEU	A	84	142.898	4.603	-4.630	1.00	0.00
ATOM 1214	O	LEU	A	84	141.947	4.052	-4.074	1.00	0.00
ATOM 1215	CB	LEU	A	84	144.268	6.169	-3.238	1.00	0.00

ATOM 1216	CG	LEU A	84	143.081	6.486	-2.326	1.00	0.00
ATOM 1217	CD1	LEU A	84	143.224	5.767	-0.994	1.00	0.00
ATOM 1218	CD2	LEU A	84	142.961	7.988	-2.113	1.00	0.00
ATOM 1219	H	LEU A	84	145.970	5.394	-4.938	1.00	0.00
ATOM 1220	HA	LEU A	84	144.320	4.031	-3.143	1.00	0.00
ATOM 1221	1HB	LEU A	84	145.173	6.234	-2.652	1.00	0.00
ATOM 1222	2HB	LEU A	84	144.307	6.918	-4.014	1.00	0.00
ATOM 1223	HG	LEU A	84	142.172	6.140	-2.796	1.00	0.00
ATOM 1224	1HD1	LEU A	84	142.368	5.985	-0.373	1.00	0.00
ATOM 1225	2HD1	LEU A	84	144.122	6.103	-0.498	1.00	0.00
ATOM 1226	3HD1	LEU A	84	143.283	4.702	-1.164	1.00	0.00
ATOM 1227	1HD2	LEU A	84	142.120	8.193	-1.467	1.00	0.00
ATOM 1228	2HD2	LEU A	84	142.812	8.475	-3.065	1.00	0.00
ATOM 1229	3HD2	LEU A	84	143.866	8.360	-1.656	1.00	0.00
ATOM 1230	N	LYS A	85	142.840	5.064	-5.874	1.00	0.00
ATOM 1231	CA	LYS A	85	141.630	4.946	-6.678	1.00	0.00
ATOM 1232	C	LYS A	85	141.289	3.482	-6.943	1.00	0.00
ATOM 1233	O	LYS A	85	140.129	3.137	-7.171	1.00	0.00
ATOM 1234	CB	LYS A	85	141.799	5.690	-8.004	1.00	0.00
ATOM 1235	CG	LYS A	85	143.086	5.346	-8.735	1.00	0.00
ATOM 1236	CD	LYS A	85	143.011	5.729	-10.204	1.00	0.00
ATOM 1237	CE	LYS A	85	142.658	4.534	-11.076	1.00	0.00
ATOM 1238	NZ	LYS A	85	143.845	4.006	-11.803	1.00	0.00
ATOM 1239	H	LYS A	85	143.631	5.494	-6.263	1.00	0.00
ATOM 1240	HA	LYS A	85	140.820	5.396	-6.124	1.00	0.00
ATOM 1241	1HB	LYS A	85	140.967	5.446	-8.649	1.00	0.00
ATOM 1242	2HB	LYS A	85	141.793	6.753	-7.811	1.00	0.00
ATOM 1243	1HG	LYS A	85	143.904	5.880	-8.275	1.00	0.00
ATOM 1244	2HG	LYS A	85	143.259	4.282	-8.657	1.00	0.00

ATOM 1245	1HD	LYS A	85	142.255	6.489	-10.331	1.00	0.00
ATOM 1246	2HD	LYS A	85	143.971	6.117	-10.514	1.00	0.00
ATOM 1247	1HE	LYS A	85	142.255	3.752	-10.448	1.00	0.00
ATOM 1248	2HE	LYS A	85	141.911	4.837	-11.794	1.00	0.00
ATOM 1249	1HZ	LYS A	85	143.815	2.966	-11.830	1.00	0.00
ATOM 1250	2HZ	LYS A	85	144.720	4.302	-11.326	1.00	0.00
ATOM 1251	3HZ	LYS A	85	143.857	4.367	-12.779	1.00	0.00
ATOM 1252	N	SER A	86	142.305	2.625	-6.914	1.00	0.00
ATOM 1253	CA	SER A	86	142.110	1.200	-7.152	1.00	0.00
ATOM 1254	C	SER A	86	142.025	0.432	-5.835	1.00	0.00
ATOM 1255	O	SER A	86	142.396	-0.739	-5.764	1.00	0.00
ATOM 1256	CB	SER A	86	143.248	0.644	-8.007	1.00	0.00
ATOM 1257	OG	SER A	86	143.129	1.068	-9.354	1.00	0.00
ATOM 1258	H	SER A	86	143.208	2.958	-6.728	1.00	0.00
ATOM 1259	HA	SER A	86	141.179	1.078	-7.685	1.00	0.00
ATOM 1260	1HB	SER A	86	144.193	0.991	-7.616	1.00	0.00
ATOM 1261	2HB	SER A	86	143.223	-0.437	-7.979	1.00	0.00
ATOM 1262	HG	SER A	86	142.218	0.969	-9.642	1.00	0.00
ATOM 1263	N	CYS A	87	141.536	1.101	-4.796	1.00	0.00
ATOM 1264	CA	CYS A	87	141.402	0.481	-3.483	1.00	0.00
ATOM 1265	C	CYS A	87	139.936	0.392	-3.070	1.00	0.00
ATOM 1266	O	CYS A	87	139.121	1.231	-3.453	1.00	0.00
ATOM 1267	CB	CYS A	87	142.190	1.273	-2.438	1.00	0.00
ATOM 1268	SG	CYS A	87	143.964	1.374	-2.773	1.00	0.00
ATOM 1269	H	CYS A	87	141.256	2.032	-4.914	1.00	0.00
ATOM 1270	HA	CYS A	87	141.807	-0.518	-3.544	1.00	0.00
ATOM 1271	1HB	CYS A	87	141.806	2.283	-2.399	1.00	0.00
ATOM 1272	2HB	CYS A	87	142.062	0.808	-1.472	1.00	0.00
ATOM 1273	HG	CYS A	87	144.411	1.556	-1.943	1.00	0.00

ATOM 1274	N	ARG A	88	139.607	-0.632	-2.286	1.00	0.00
ATOM 1275	CA	ARG A	88	138.238	-0.829	-1.823	1.00	0.00
ATOM 1276	C	ARG A	88	138.194	-0.971	-0.302	1.00	0.00
ATOM 1277	O	ARG A	88	139.090	-1.563	0.299	1.00	0.00
ATOM 1278	CB	ARG A	88	137.630	-2.070	-2.481	1.00	0.00
ATOM 1279	CG	ARG A	88	136.804	-1.758	-3.719	1.00	0.00
ATOM 1280	CD	ARG A	88	135.321	-1.676	-3.394	1.00	0.00
ATOM 1281	NE	ARG A	88	134.498	-2.278	-4.440	1.00	0.00
ATOM 1282	CZ	ARG A	88	134.378	-3.590	-4.626	1.00	0.00
ATOM 1283	NH1	ARG A	88	135.026	-4.441	-3.839	1.00	0.00
ATOM 1284	NH2	ARG A	88	133.607	-4.054	-5.601	1.00	0.00
ATOM 1285	H	ARG A	88	140.300	-1.268	-2.014	1.00	0.00
ATOM 1286	HA	ARG A	88	137.663	0.038	-2.110	1.00	0.00
ATOM 1287	1HB	ARG A	88	138.427	-2.739	-2.766	1.00	0.00
ATOM 1288	2HB	ARG A	88	136.991	-2.567	-1.766	1.00	0.00
ATOM 1289	1HG	ARG A	88	137.126	-0.811	-4.126	1.00	0.00
ATOM 1290	2HG	ARG A	88	136.961	-2.537	-4.450	1.00	0.00
ATOM 1291	1HD	ARG A	88	135.140	-2.193	-2.464	1.00	0.00
ATOM 1292	2HD	ARG A	88	135.047	-0.636	-3.286	1.00	0.00
ATOM 1293	HE	ARG A	88	134.008	-1.672	-5.035	1.00	0.00
ATOM 1294	1HH1	ARG A	88	135.608	-4.098	-3.103	1.00	0.00
ATOM 1295	2HH1	ARG A	88	134.932	-5.426	-3.984	1.00	0.00
ATOM 1296	1HH2	ARG A	88	133.117	-3.417	-6.195	1.00	0.00
ATOM 1297	2HH2	ARG A	88	133.518	-5.040	-5.741	1.00	0.00
ATOM 1298	N	PRO A	89	137.145	-0.428	0.343	1.00	0.00
ATOM 1299	CA	PRO A	89	136.992	-0.500	1.800	1.00	0.00
ATOM 1300	C	PRO A	89	137.064	-1.933	2.319	1.00	0.00
ATOM 1301	O	PRO A	89	136.429	-2.834	1.772	1.00	0.00
ATOM 1302	CB	PRO A	89	135.600	0.087	2.047	1.00	0.00

ATOM 1303	CG	PRO A	89	135.338	0.956	0.866	1.00	0.00
ATOM 1304	CD	PRO A	89	136.029	0.296	-0.293	1.00	0.00
ATOM 1305	HA	PRO A	89	137.735	0.101	2.305	1.00	0.00
ATOM 1306	1HB	PRO A	89	134.878	-0.712	2.118	1.00	0.00
ATOM 1307	2HB	PRO A	89	135.605	0.658	2.963	1.00	0.00
ATOM 1308	1HG	PRO A	89	134.275	1.018	0.684	1.00	0.00
ATOM 1309	2HG	PRO A	89	135.748	1.940	1.037	1.00	0.00
ATOM 1310	1HD	PRO A	89	135.359	-0.389	-0.793	1.00	0.00
ATOM 1311	2HD	PRO A	89	136.397	1.039	-0.986	1.00	0.00
ATOM 1312	N	ASP A	90	137.840	-2.134	3.379	1.00	0.00
ATOM 1313	CA	ASP A	90	137.993	-3.457	3.973	1.00	0.00
ATOM 1314	C	ASP A	90	137.169	-3.577	5.252	1.00	0.00
ATOM 1315	O	ASP A	90	137.450	-2.910	6.248	1.00	0.00
ATOM 1316	CB	ASP A	90	139.466	-3.738	4.273	1.00	0.00
ATOM 1317	CG	ASP A	90	139.802	-5.214	4.188	1.00	0.00
ATOM 1318	OD1	ASP A	90	139.035	-5.962	3.546	1.00	0.00
ATOM 1319	OD2	ASP A	90	140.832	-5.623	4.765	1.00	0.00
ATOM 1320	H	ASP A	90	138.319	-1.376	3.772	1.00	0.00
ATOM 1321	HA	ASP A	90	137.634	-4.185	3.260	1.00	0.00
ATOM 1322	1HB	ASP A	90	140.079	-3.207	3.561	1.00	0.00
ATOM 1323	2HB	ASP A	90	139.697	-3.391	5.270	1.00	0.00
ATOM 1324	N	SER A	91	136.152	-4.431	5.217	1.00	0.00
ATOM 1325	CA	SER A	91	135.287	-4.638	6.373	1.00	0.00
ATOM 1326	C	SER A	91	135.697	-5.889	7.143	1.00	0.00
ATOM 1327	O	SER A	91	134.862	-6.551	7.760	1.00	0.00
ATOM 1328	CB	SER A	91	133.828	-4.756	5.929	1.00	0.00
ATOM 1329	OG	SER A	91	132.948	-4.280	6.933	1.00	0.00
ATOM 1330	H	SER A	91	135.978	-4.935	4.394	1.00	0.00
ATOM 1331	HA	SER A	91	135.389	-3.781	7.021	1.00	0.00

ATOM 1332	1HB	SER A	91	133.678	-4.174	5.032	1.00	0.00
ATOM 1333	2HB	SER A	91	133.598	-5.792	5.729	1.00	0.00
ATOM 1334	HG	SER A	91	132.884	-3.323	6.875	1.00	0.00
ATOM 1335	N	ARG A	92	136.986	-6.208	7.102	1.00	0.00
ATOM 1336	CA	ARG A	92	137.506	-7.381	7.796	1.00	0.00
ATOM 1337	C	ARG A	92	137.392	-7.216	9.308	1.00	0.00
ATOM 1338	O	ARG A	92	137.237	-8.194	10.039	1.00	0.00
ATOM 1339	CB	ARG A	92	138.965	-7.625	7.407	1.00	0.00
ATOM 1340	CG	ARG A	92	139.127	-8.507	6.179	1.00	0.00
ATOM 1341	CD	ARG A	92	139.297	-9.967	6.561	1.00	0.00
ATOM 1342	NE	ARG A	92	138.019	-10.606	6.867	1.00	0.00
ATOM 1343	CZ	ARG A	92	137.901	-11.865	7.283	1.00	0.00
ATOM 1344	NH1	ARG A	92	138.978	-12.623	7.443	1.00	0.00
ATOM 1345	NH2	ARG A	92	136.700	-12.367	7.540	1.00	0.00
ATOM 1346	H	ARG A	92	137.603	-5.642	6.593	1.00	0.00
ATOM 1347	HA	ARG A	92	136.915	-8.232	7.494	1.00	0.00
ATOM 1348	1HB	ARG A	92	139.435	-6.674	7.205	1.00	0.00
ATOM 1349	2HB	ARG A	92	139.472	-8.100	8.234	1.00	0.00
ATOM 1350	1HG	ARG A	92	138.250	-8.408	5.558	1.00	0.00
ATOM 1351	2HG	ARG A	92	139.999	-8.183	5.629	1.00	0.00
ATOM 1352	1HD	ARG A	92	139.761	-10.490	5.738	1.00	0.00
ATOM 1353	2HD	ARG A	92	139.937	-10.027	7.430	1.00	0.00
ATOM 1354	HE	ARG A	92	137.207	-10.069	6.758	1.00	0.00
ATOM 1355	1HH1	ARG A	92	139.885	-12.251	7.251	1.00	0.00
ATOM 1356	2HH1	ARG A	92	138.881	-13.568	7.756	1.00	0.00
ATOM 1357	1HH2	ARG A	92	135.885	-11.800	7.422	1.00	0.00
ATOM 1358	2HH2	ARG A	92	136.610	-13.314	7.852	1.00	0.00
ATOM 1359	N	PHE A	93	137.469	-5.972	9.771	1.00	0.00
ATOM 1360	CA	PHE A	93	137.374	-5.680	11.197	1.00	0.00

ATOM 1361	C	PHE A	93	136.233	-4.710	11.482	1.00	0.00
ATOM 1362	O	PHE A	93	136.297	-3.923	12.426	1.00	0.00
ATOM 1363	CB	PHE A	93	138.694	-5.097	11.708	1.00	0.00
ATOM 1364	CG	PHE A	93	139.869	-6.012	11.515	1.00	0.00
ATOM 1365	CD1	PHE A	93	140.315	-6.330	10.242	1.00	0.00
ATOM 1366	CD2	PHE A	93	140.529	-6.553	12.607	1.00	0.00
ATOM 1367	CE1	PHE A	93	141.396	-7.172	10.062	1.00	0.00
ATOM 1368	CE2	PHE A	93	141.611	-7.395	12.432	1.00	0.00
ATOM 1369	CZ	PHE A	93	142.044	-7.705	11.158	1.00	0.00
ATOM 1370	H	PHE A	93	137.593	-5.233	9.140	1.00	0.00
ATOM 1371	HA	PHE A	93	137.179	-6.609	11.713	1.00	0.00
ATOM 1372	1HB	PHE A	93	138.900	-4.177	11.182	1.00	0.00
ATOM 1373	2HB	PHE A	93	138.602	-4.889	12.764	1.00	0.00
ATOM 1374	HD1	PHE A	93	139.808	-5.914	9.384	1.00	0.00
ATOM 1375	HD2	PHE A	93	140.191	-6.311	13.603	1.00	0.00
ATOM 1376	HE1	PHE A	93	141.732	-7.413	9.064	1.00	0.00
ATOM 1377	HE2	PHE A	93	142.116	-7.810	13.292	1.00	0.00
ATOM 1378	HZ	PHE A	93	142.890	-8.363	11.020	1.00	0.00
ATOM 1379	N	ALA A	94	135.189	-4.773	10.663	1.00	0.00
ATOM 1380	CA	ALA A	94	134.033	-3.900	10.832	1.00	0.00
ATOM 1381	C	ALA A	94	133.305	-4.199	12.137	1.00	0.00
ATOM 1382	O	ALA A	94	133.012	-5.354	12.445	1.00	0.00
ATOM 1383	CB	ALA A	94	133.085	-4.045	9.650	1.00	0.00
ATOM 1384	H	ALA A	94	135.193	-5.422	9.929	1.00	0.00
ATOM 1385	HA	ALA A	94	134.388	-2.879	10.856	1.00	0.00
ATOM 1386	1HB	ALA A	94	133.208	-5.023	9.210	1.00	0.00
ATOM 1387	2HB	ALA A	94	133.309	-3.287	8.914	1.00	0.00
ATOM 1388	3HB	ALA A	94	132.067	-3.928	9.990	1.00	0.00
ATOM 1389	N	SER A	95	133.013	-3.150	12.901	1.00	0.00

ATOM 1390	CA	SER A	95	132.317	-3.302	14.173	1.00	0.00
ATOM 1391	C	SER A	95	130.916	-3.866	13.962	1.00	0.00
ATOM 1392	O	SER A	95	130.374	-3.811	12.859	1.00	0.00
ATOM 1393	CB	SER A	95	132.236	-1.957	14.897	1.00	0.00
ATOM 1394	OG	SER A	95	132.416	-2.118	16.294	1.00	0.00
ATOM 1395	H	SER A	95	133.272	-2.255	12.601	1.00	0.00
ATOM 1396	HA	SER A	95	132.883	-3.993	14.780	1.00	0.00
ATOM 1397	1HB	SER A	95	133.008	-1.301	14.522	1.00	0.00
ATOM 1398	2HB	SER A	95	131.268	-1.513	14.719	1.00	0.00
ATOM 1399	HG	SER A	95	133.342	-2.288	16.481	1.00	0.00
ATOM 1400	N	LEU A	96	130.335	-4.410	15.026	1.00	0.00
ATOM 1401	CA	LEU A	96	128.997	-4.986	14.956	1.00	0.00
ATOM 1402	C	LEU A	96	128.036	-4.263	15.895	1.00	0.00
ATOM 1403	O	LEU A	96	126.868	-4.055	15.564	1.00	0.00
ATOM 1404	CB	LEU A	96	129.042	-6.476	15.303	1.00	0.00
ATOM 1405	CG	LEU A	96	128.119	-7.363	14.466	1.00	0.00
ATOM 1406	CD1	LEU A	96	128.828	-7.831	13.204	1.00	0.00
ATOM 1407	CD2	LEU A	96	127.642	-8.555	15.284	1.00	0.00
ATOM 1408	H	LEU A	96	130.818	-4.426	15.879	1.00	0.00
ATOM 1409	HA	LEU A	96	128.642	-4.872	13.944	1.00	0.00
ATOM 1410	1HB	LEU A	96	130.057	-6.823	15.170	1.00	0.00
ATOM 1411	2HB	LEU A	96	128.772	-6.592	16.341	1.00	0.00
ATOM 1412	HG	LEU A	96	127.252	-6.792	14.168	1.00	0.00
ATOM 1413	1HD1	LEU A	96	129.233	-8.820	13.364	1.00	0.00
ATOM 1414	2HD1	LEU A	96	129.629	-7.148	12.967	1.00	0.00
ATOM 1415	3HD1	LEU A	96	128.124	-7.860	12.385	1.00	0.00
ATOM 1416	1HD2	LEU A	96	127.529	-9.413	14.639	1.00	0.00
ATOM 1417	2HD2	LEU A	96	126.691	-8.319	15.740	1.00	0.00
ATOM 1418	3HD2	LEU A	96	128.365	-8.775	16.054	1.00	0.00

ATOM 1419	N	GLN A	97	128.533	-3.884	17.066	1.00	0.00
ATOM 1420	CA	GLN A	97	127.716	-3.187	18.053	1.00	0.00
ATOM 1421	C	GLN A	97	127.507	-1.726	17.658	1.00	0.00
ATOM 1422	O	GLN A	97	126.376	-1.290	17.445	1.00	0.00
ATOM 1423	CB	GLN A	97	128.369	-3.269	19.436	1.00	0.00
ATOM 1424	CG	GLN A	97	127.712	-4.284	20.358	1.00	0.00
ATOM 1425	CD	GLN A	97	128.057	-5.715	19.990	1.00	0.00
ATOM 1426	OE1	GLN A	97	129.195	-6.154	20.161	1.00	0.00
ATOM 1427	NE2	GLN A	97	127.075	-6.449	19.483	1.00	0.00
ATOM 1428	H	GLN A	97	129.470	-4.080	17.272	1.00	0.00
ATOM 1429	HA	GLN A	97	126.755	-3.677	18.090	1.00	0.00
ATOM 1430	1HB	GLN A	97	129.406	-3.543	19.315	1.00	0.00
ATOM 1431	2HB	GLN A	97	128.313	-2.299	19.908	1.00	0.00
ATOM 1432	1HG	GLN A	97	128.042	-4.100	21.370	1.00	0.00
ATOM 1433	2HG	GLN A	97	126.641	-4.162	20.301	1.00	0.00
ATOM 1434	1HE2	GLN A	97	126.193	-6.033	19.375	1.00	0.00
ATOM 1435	2HE2	GLN A	97	127.270	-7.377	19.237	1.00	0.00
ATOM 1436	N	PRO A	98	128.598	-0.947	17.556	1.00	0.00
ATOM 1437	CA	PRO A	98	128.523	0.469	17.186	1.00	0.00
ATOM 1438	C	PRO A	98	128.237	0.667	15.701	1.00	0.00
ATOM 1439	O	PRO A	98	128.153	-0.297	14.942	1.00	0.00
ATOM 1440	CB	PRO A	98	129.913	0.996	17.538	1.00	0.00
ATOM 1441	CG	PRO A	98	130.809	-0.185	17.397	1.00	0.00
ATOM 1442	CD	PRO A	98	129.988	-1.383	17.795	1.00	0.00
ATOM 1443	HA	PRO A	98	127.778	0.992	17.768	1.00	0.00
ATOM 1444	1HB	PRO A	98	130.186	1.786	16.853	1.00	0.00
ATOM 1445	2HB	PRO A	98	129.914	1.372	18.551	1.00	0.00
ATOM 1446	1HG	PRO A	98	131.134	-0.278	16.370	1.00	0.00
ATOM 1447	2HG	PRO A	98	131.661	-0.081	18.052	1.00	0.00

ATOM 1448	1HD	PRO A	98	130.236	-2.233	17.175	1.00	0.00
ATOM 1449	2HD	PRO A	98	130.144	-1.617	18.837	1.00	0.00
ATOM 1450	N	SER A	99	128.090	1.923	15.295	1.00	0.00
ATOM 1451	CA	SER A	99	127.813	2.249	13.901	1.00	0.00
ATOM 1452	C	SER A	99	126.511	1.603	13.438	1.00	0.00
ATOM 1453	O	SER A	99	125.885	0.845	14.180	1.00	0.00
ATOM 1454	CB	SER A	99	128.968	1.789	13.009	1.00	0.00
ATOM 1455	OG	SER A	99	129.924	2.821	12.839	1.00	0.00
ATOM 1456	H	SER A	99	128.168	2.649	15.948	1.00	0.00
ATOM 1457	HA	SER A	99	127.716	3.321	13.824	1.00	0.00
ATOM 1458	1HB	SER A	99	129.453	0.937	13.463	1.00	0.00
ATOM 1459	2HB	SER A	99	128.582	1.509	12.039	1.00	0.00
ATOM 1460	HG	SER A	99	129.542	3.530	12.318	1.00	0.00
ATOM 1461	N	GLY A	100	126.108	1.908	12.209	1.00	0.00
ATOM 1462	CA	GLY A	100	124.883	1.349	11.670	1.00	0.00
ATOM 1463	C	GLY A	100	124.519	1.941	10.322	1.00	0.00
ATOM 1464	O	GLY A	100	123.482	2.592	10.188	1.00	0.00
ATOM 1465	H	GLY A	100	126.648	2.518	11.664	1.00	0.00
ATOM 1466	1HA	GLY A	100	125.005	0.282	11.561	1.00	0.00
ATOM 1467	2HA	GLY A	100	124.078	1.540	12.364	1.00	0.00
ATOM 1468	N	PRO A	101	125.359	1.731	9.293	1.00	0.00
ATOM 1469	CA	PRO A	101	125.107	2.256	7.947	1.00	0.00
ATOM 1470	C	PRO A	101	123.718	1.890	7.433	1.00	0.00
ATOM 1471	O	PRO A	101	122.980	2.747	6.947	1.00	0.00
ATOM 1472	CB	PRO A	101	126.186	1.585	7.096	1.00	0.00
ATOM 1473	CG	PRO A	101	127.285	1.275	8.051	1.00	0.00
ATOM 1474	CD	PRO A	101	126.618	0.967	9.363	1.00	0.00
ATOM 1475	HA	PRO A	101	125.231	3.328	7.912	1.00	0.00
ATOM 1476	1HB	PRO A	101	125.786	0.687	6.645	1.00	0.00

ATOM 1477	2HB	PRO A 101	126.515	2.265	6.324	1.00	0.00
ATOM 1478	1HG	PRO A 101	127.842	0.418	7.703	1.00	0.00
ATOM 1479	2HG	PRO A 101	127.935	2.131	8.153	1.00	0.00
ATOM 1480	1HD	PRO A 101	126.423	-0.092	9.447	1.00	0.00
ATOM 1481	2HD	PRO A 101	127.230	1.306	10.185	1.00	0.00
ATOM 1482	N	SER A 102	123.369	0.613	7.545	1.00	0.00
ATOM 1483	CA	SER A 102	122.069	0.133	7.093	1.00	0.00
ATOM 1484	C	SER A 102	121.100	-0.001	8.263	1.00	0.00
ATOM 1485	O	SER A 102	121.516	-0.103	9.417	1.00	0.00
ATOM 1486	CB	SER A 102	122.218	-1.213	6.382	1.00	0.00
ATOM 1487	OG	SER A 102	123.120	-1.118	5.293	1.00	0.00
ATOM 1488	H	SER A 102	124.001	-0.023	7.942	1.00	0.00
ATOM 1489	HA	SER A 102	121.674	0.857	6.395	1.00	0.00
ATOM 1490	1HB	SER A 102	122.592	-1.947	7.079	1.00	0.00
ATOM 1491	2HB	SER A 102	121.255	-1.529	6.008	1.00	0.00
ATOM 1492	HG	SER A 102	124.020	-1.072	5.626	1.00	0.00
ATOM 1493	N	SER A 103	119.807	-0.001	7.957	1.00	0.00
ATOM 1494	CA	SER A 103	118.779	-0.124	8.984	1.00	0.00
ATOM 1495	C	SER A 103	117.615	-0.978	8.491	1.00	0.00
ATOM 1496	O	SER A 103	117.578	-1.380	7.327	1.00	0.00
ATOM 1497	CB	SER A 103	118.273	1.260	9.396	1.00	0.00
ATOM 1498	OG	SER A 103	119.008	1.766	10.496	1.00	0.00
ATOM 1499	H	SER A 103	119.538	0.082	7.018	1.00	0.00
ATOM 1500	HA	SER A 103	119.224	-0.605	9.842	1.00	0.00
ATOM 1501	1HB	SER A 103	118.378	1.941	8.566	1.00	0.00
ATOM 1502	2HB	SER A 103	117.231	1.191	9.675	1.00	0.00
ATOM 1503	HG	SER A 103	118.404	2.011	11.200	1.00	0.00
ATOM 1504	N	GLY A 104	116.668	-1.250	9.382	1.00	0.00
ATOM 1505	CA	GLY A 104	115.517	-2.054	9.017	1.00	0.00

ATOM 1506 C GLY A 104 115.849 -3.530 8.912 1.00 0.00
ATOM 1507 O GLY A 104 116.578 -3.908 7.971 1.00 0.00
ATOM 1508 OXT GLY A 104 115.381 -4.306 9.770 1.00 0.00
ATOM 1509 H GLY A 104 116.751 -0.902 10.294 1.00 0.00
ATOM 1510 1HA GLY A 104 114.748 -1.923 9.764 1.00 0.00
ATOM 1511 2HA GLY A 104 115.140 -1.712 8.064 1.00 0.00
TER 1512 GLY A 104
ENDMDL

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立体構造座標表 1 1

ATOM 1 N GLY A 1 115.866 3.091 -14.965 1.00 0.00
ATOM 2 CA GLY A 1 115.463 4.481 -15.313 1.00 0.00
ATOM 3 C GLY A 1 114.748 5.178 -14.173 1.00 0.00
ATOM 4 O GLY A 1 115.178 6.239 -13.718 1.00 0.00
ATOM 5 1H GLY A 1 115.734 2.465 -15.785 1.00 0.00
ATOM 6 2H GLY A 1 115.288 2.737 -14.177 1.00 0.00
ATOM 7 3H GLY A 1 116.867 3.069 -14.684 1.00 0.00
ATOM 8 1HA GLY A 1 116.347 5.047 -15.568 1.00 0.00
ATOM 9 2HA GLY A 1 114.807 4.450 -16.170 1.00 0.00
ATOM 10 N SER A 2 113.654 4.584 -13.710 1.00 0.00
ATOM 11 CA SER A 2 112.877 5.154 -12.617 1.00 0.00
ATOM 12 C SER A 2 113.073 4.352 -11.334 1.00 0.00
ATOM 13 O SER A 2 112.499 3.275 -11.170 1.00 0.00
ATOM 14 CB SER A 2 111.393 5.196 -12.984 1.00 0.00
ATOM 15 OG SER A 2 110.991 3.994 -13.621 1.00 0.00
ATOM 16 H SER A 2 113.361 3.739 -14.114 1.00 0.00
ATOM 17 HA SER A 2 113.225 6.163 -12.454 1.00 0.00
ATOM 18 1HB SER A 2 110.805 5.327 -12.088 1.00 0.00

ATOM 19	2HB	SER A	2	111.213	6.021	-13.656	1.00	0.00
ATOM 20	HG	SER A	2	110.163	4.140	-14.085	1.00	0.00
ATOM 21	N	SER A	3	113.885	4.885	-10.428	1.00	0.00
ATOM 22	CA	SER A	3	114.158	4.219	-9.160	1.00	0.00
ATOM 23	C	SER A	3	114.271	5.234	-8.026	1.00	0.00
ATOM 24	O	SER A	3	115.013	5.026	-7.066	1.00	0.00
ATOM 25	CB	SER A	3	115.444	3.398	-9.257	1.00	0.00
ATOM 26	OG	SER A	3	116.585	4.238	-9.267	1.00	0.00
ATOM 27	H	SER A	3	114.313	5.746	-10.617	1.00	0.00
ATOM 28	HA	SER A	3	113.332	3.555	-8.951	1.00	0.00
ATOM 29	1HB	SER A	3	115.510	2.733	-8.407	1.00	0.00
ATOM 30	2HB	SER A	3	115.431	2.817	-10.168	1.00	0.00
ATOM 31	HG	SER A	3	117.076	4.121	-8.450	1.00	0.00
ATOM 32	N	GLY A	4	113.532	6.331	-8.144	1.00	0.00
ATOM 33	CA	GLY A	4	113.564	7.361	-7.124	1.00	0.00
ATOM 34	C	GLY A	4	114.925	8.018	-7.006	1.00	0.00
ATOM 35	O	GLY A	4	115.618	8.209	-8.005	1.00	0.00
ATOM 36	H	GLY A	4	112.959	6.442	-8.932	1.00	0.00
ATOM 37	1HA	GLY A	4	112.831	8.116	-7.366	1.00	0.00
ATOM 38	2HA	GLY A	4	113.308	6.918	-6.172	1.00	0.00
ATOM 39	N	SER A	5	115.308	8.367	-5.781	1.00	0.00
ATOM 40	CA	SER A	5	116.595	9.007	-5.536	1.00	0.00
ATOM 41	C	SER A	5	117.744	8.053	-5.842	1.00	0.00
ATOM 42	O	SER A	5	117.532	6.947	-6.339	1.00	0.00
ATOM 43	CB	SER A	5	116.683	9.483	-4.086	1.00	0.00
ATOM 44	OG	SER A	5	116.895	8.395	-3.204	1.00	0.00
ATOM 45	H	SER A	5	114.711	8.189	-5.025	1.00	0.00
ATOM 46	HA	SER A	5	116.669	9.863	-6.192	1.00	0.00
ATOM 47	1HB	SER A	5	117.505	10.176	-3.985	1.00	0.00

ATOM 48	2HB	SER A	5	115.761	9.977	-3.814	1.00	0.00
ATOM 49	HG	SER A	5	117.254	8.719	-2.374	1.00	0.00
ATOM 50	N	SER A	6	118.964	8.488	-5.541	1.00	0.00
ATOM 51	CA	SER A	6	120.148	7.672	-5.783	1.00	0.00
ATOM 52	C	SER A	6	121.050	7.644	-4.553	1.00	0.00
ATOM 53	O	SER A	6	120.819	8.368	-3.585	1.00	0.00
ATOM 54	CB	SER A	6	120.925	8.209	-6.987	1.00	0.00
ATOM 55	OG	SER A	6	120.330	7.794	-8.204	1.00	0.00
ATOM 56	H	SER A	6	119.070	9.379	-5.147	1.00	0.00
ATOM 57	HA	SER A	6	119.819	6.667	-5.998	1.00	0.00
ATOM 58	1HB	SER A	6	120.934	9.288	-6.955	1.00	0.00
ATOM 59	2HB	SER A	6	121.940	7.839	-6.952	1.00	0.00
ATOM 60	HG	SER A	6	119.960	8.556	-8.656	1.00	0.00
ATOM 61	N	GLY A	7	122.078	6.802	-4.599	1.00	0.00
ATOM 62	CA	GLY A	7	122.998	6.694	-3.483	1.00	0.00
ATOM 63	C	GLY A	7	124.358	7.292	-3.792	1.00	0.00
ATOM 64	O	GLY A	7	125.374	6.600	-3.734	1.00	0.00
ATOM 65	H	GLY A	7	122.211	6.250	-5.398	1.00	0.00
ATOM 66	1HA	GLY A	7	122.577	7.208	-2.631	1.00	0.00
ATOM 67	2HA	GLY A	7	123.125	5.651	-3.234	1.00	0.00
ATOM 68	N	LEU A	8	124.375	8.579	-4.121	1.00	0.00
ATOM 69	CA	LEU A	8	125.618	9.269	-4.441	1.00	0.00
ATOM 70	C	LEU A	8	126.203	9.939	-3.201	1.00	0.00
ATOM 71	O	LEU A	8	125.836	11.063	-2.860	1.00	0.00
ATOM 72	CB	LEU A	8	125.382	10.312	-5.534	1.00	0.00
ATOM 73	CG	LEU A	8	125.496	9.786	-6.966	1.00	0.00
ATOM 74	CD1	LEU A	8	124.571	10.560	-7.895	1.00	0.00
ATOM 75	CD2	LEU A	8	126.936	9.874	-7.451	1.00	0.00
ATOM 76	H	LEU A	8	123.530	9.077	-4.149	1.00	0.00

ATOM 77	HA	LEU A	8	126.321	8.535	-4.804	1.00	0.00
ATOM 78	1HB	LEU A	8	124.390	10.723	-5.402	1.00	0.00
ATOM 79	2HB	LEU A	8	126.102	11.106	-5.409	1.00	0.00
ATOM 80	HG	LEU A	8	125.198	8.749	-6.987	1.00	0.00
ATOM 81	1HD1	LEU A	8	124.613	10.130	-8.884	1.00	0.00
ATOM 82	2HD1	LEU A	8	124.884	11.592	-7.936	1.00	0.00
ATOM 83	3HD1	LEU A	8	123.559	10.504	-7.521	1.00	0.00
ATOM 84	1HD2	LEU A	8	127.427	10.708	-6.971	1.00	0.00
ATOM 85	2HD2	LEU A	8	126.946	10.018	-8.521	1.00	0.00
ATOM 86	3HD2	LEU A	8	127.454	8.960	-7.205	1.00	0.00
ATOM 87	N	ALA A	9	127.114	9.241	-2.531	1.00	0.00
ATOM 88	CA	ALA A	9	127.749	9.768	-1.330	1.00	0.00
ATOM 89	C	ALA A	9	129.268	9.670	-1.424	1.00	0.00
ATOM 90	O	ALA A	9	129.869	8.705	-0.951	1.00	0.00
ATOM 91	CB	ALA A	9	127.246	9.027	-0.100	1.00	0.00
ATOM 92	H	ALA A	9	127.366	8.351	-2.854	1.00	0.00
ATOM 93	HA	ALA A	9	127.471	10.807	-1.234	1.00	0.00
ATOM 94	1HB	ALA A	9	127.736	8.068	-0.032	1.00	0.00
ATOM 95	2HB	ALA A	9	126.179	8.883	-0.179	1.00	0.00
ATOM 96	3HB	ALA A	9	127.466	9.607	0.785	1.00	0.00
ATOM 97	N	MET A	10	129.884	10.676	-2.036	1.00	0.00
ATOM 98	CA	MET A	10	131.333	10.704	-2.192	1.00	0.00
ATOM 99	C	MET A	10	131.803	12.075	-2.673	1.00	0.00
ATOM 100	O	MET A	10	132.290	12.217	-3.796	1.00	0.00
ATOM 101	CB	MET A	10	131.781	9.621	-3.177	1.00	0.00
ATOM 102	CG	MET A	10	131.011	9.633	-4.487	1.00	0.00
ATOM 103	SD	MET A	10	132.039	9.194	-5.902	1.00	0.00
ATOM 104	CE	MET A	10	131.756	10.599	-6.975	1.00	0.00
ATOM 105	H	MET A	10	129.350	11.418	-2.392	1.00	0.00

ATOM 106	HA	MET A	10	131.774	10.503	-1.227	1.00	0.00
ATOM 107	1HB	MET A	10	132.829	9.764	-3.399	1.00	0.00
ATOM 108	2HB	MET A	10	131.649	8.654	-2.715	1.00	0.00
ATOM 109	1HG	MET A	10	130.198	8.925	-4.418	1.00	0.00
ATOM 110	2HG	MET A	10	130.610	10.624	-4.645	1.00	0.00
ATOM 111	1HE	MET A	10	132.698	10.931	-7.388	1.00	0.00
ATOM 112	2HE	MET A	10	131.308	11.401	-6.408	1.00	0.00
ATOM 113	3HE	MET A	10	131.094	10.311	-7.778	1.00	0.00
ATOM 114	N	PRO A	11	131.663	13.108	-1.824	1.00	0.00
ATOM 115	CA	PRO A	11	132.074	14.473	-2.167	1.00	0.00
ATOM 116	C	PRO A	11	133.551	14.563	-2.551	1.00	0.00
ATOM 117	O	PRO A	11	133.898	15.181	-3.558	1.00	0.00
ATOM 118	CB	PRO A	11	131.805	15.271	-0.886	1.00	0.00
ATOM 119	CG	PRO A	11	130.807	14.463	-0.129	1.00	0.00
ATOM 120	CD	PRO A	11	131.093	13.028	-0.468	1.00	0.00
ATOM 121	HA	PRO A	11	131.475	14.872	-2.972	1.00	0.00
ATOM 122	1HB	PRO A	11	132.723	15.387	-0.331	1.00	0.00
ATOM 123	2HB	PRO A	11	131.410	16.243	-1.142	1.00	0.00
ATOM 124	1HG	PRO A	11	130.929	14.629	0.931	1.00	0.00
ATOM 125	2HG	PRO A	11	129.808	14.729	-0.439	1.00	0.00
ATOM 126	1HD	PRO A	11	131.806	12.609	0.227	1.00	0.00
ATOM 127	2HD	PRO A	11	130.180	12.450	-0.468	1.00	0.00
ATOM 128	N	PRO A	12	134.450	13.949	-1.756	1.00	0.00
ATOM 129	CA	PRO A	12	135.886	13.974	-2.032	1.00	0.00
ATOM 130	C	PRO A	12	136.292	12.960	-3.095	1.00	0.00
ATOM 131	O	PRO A	12	137.238	13.182	-3.852	1.00	0.00
ATOM 132	CB	PRO A	12	136.500	13.610	-0.682	1.00	0.00
ATOM 133	CG	PRO A	12	135.490	12.722	-0.040	1.00	0.00
ATOM 134	CD	PRO A	12	134.140	13.185	-0.528	1.00	0.00

ATOM 135	HA	PRO A	12	136.216	14.959	-2.328	1.00	0.00
ATOM 136	1HB	PRO A	12	137.438	13.099	-0.837	1.00	0.00
ATOM 137	2HB	PRO A	12	136.662	14.507	-0.103	1.00	0.00
ATOM 138	1HG	PRO A	12	135.663	11.698	-0.336	1.00	0.00
ATOM 139	2HG	PRO A	12	135.551	12.816	1.034	1.00	0.00
ATOM 140	1HD	PRO A	12	133.514	12.336	-0.753	1.00	0.00
ATOM 141	2HD	PRO A	12	133.670	13.816	0.211	1.00	0.00
ATOM 142	N	GLY A	13	135.571	11.845	-3.148	1.00	0.00
ATOM 143	CA	GLY A	13	135.870	10.813	-4.124	1.00	0.00
ATOM 144	C	GLY A	13	135.828	9.420	-3.526	1.00	0.00
ATOM 145	O	GLY A	13	135.130	9.182	-2.540	1.00	0.00
ATOM 146	H	GLY A	13	134.829	11.722	-2.520	1.00	0.00
ATOM 147	1HA	GLY A	13	135.150	10.871	-4.926	1.00	0.00
ATOM 148	2HA	GLY A	13	136.857	10.990	-4.526	1.00	0.00
ATOM 149	N	ASN A	14	136.576	8.499	-4.124	1.00	0.00
ATOM 150	CA	ASN A	14	136.621	7.122	-3.645	1.00	0.00
ATOM 151	C	ASN A	14	135.237	6.483	-3.698	1.00	0.00
ATOM 152	O	ASN A	14	134.268	7.110	-4.126	1.00	0.00
ATOM 153	CB	ASN A	14	137.162	7.075	-2.215	1.00	0.00
ATOM 154	CG	ASN A	14	138.589	7.579	-2.120	1.00	0.00
ATOM 155	OD1	ASN A	14	139.533	6.793	-2.045	1.00	0.00
ATOM 156	ND2	ASN A	14	138.752	8.897	-2.121	1.00	0.00
ATOM 157	H	ASN A	14	137.110	8.751	-4.906	1.00	0.00
ATOM 158	HA	ASN A	14	137.286	6.568	-4.290	1.00	0.00
ATOM 159	1HB	ASN A	14	136.541	7.689	-1.581	1.00	0.00
ATOM 160	2HB	ASN A	14	137.135	6.055	-1.860	1.00	0.00
ATOM 161	1HD2	ASN A	14	137.954	9.462	-2.183	1.00	0.00
ATOM 162	2HD2	ASN A	14	139.665	9.250	-2.062	1.00	0.00
ATOM 163	N	SER A	15	135.153	5.230	-3.261	1.00	0.00

ATOM 164	CA	SER A	15	133.889	4.505	-3.259	1.00	0.00
ATOM 165	C	SER A	15	133.091	4.806	-1.995	1.00	0.00
ATOM 166	O	SER A	15	131.921	5.185	-2.062	1.00	0.00
ATOM 167	CB	SER A	15	134.139	3.000	-3.372	1.00	0.00
ATOM 168	OG	SER A	15	135.400	2.651	-2.828	1.00	0.00
ATOM 169	H	SER A	15	135.961	4.783	-2.933	1.00	0.00
ATOM 170	HA	SER A	15	133.318	4.831	-4.116	1.00	0.00
ATOM 171	1HB	SER A	15	133.369	2.468	-2.834	1.00	0.00
ATOM 172	2HB	SER A	15	134.117	2.710	-4.413	1.00	0.00
ATOM 173	HG	SER A	15	135.437	1.701	-2.690	1.00	0.00
ATOM 174	N	HIS A	16	133.731	4.634	-0.843	1.00	0.00
ATOM 175	CA	HIS A	16	133.082	4.888	0.438	1.00	0.00
ATOM 176	C	HIS A	16	133.911	5.845	1.287	1.00	0.00
ATOM 177	O	HIS A	16	133.495	6.971	1.559	1.00	0.00
ATOM 178	CB	HIS A	16	132.862	3.573	1.192	1.00	0.00
ATOM 179	CG	HIS A	16	131.453	3.072	1.121	1.00	0.00
ATOM 180	ND1	HIS A	16	130.429	3.599	1.878	1.00	0.00
ATOM 181	CD2	HIS A	16	130.900	2.083	0.378	1.00	0.00
ATOM 182	CE1	HIS A	16	129.306	2.957	1.605	1.00	0.00
ATOM 183	NE2	HIS A	16	129.566	2.033	0.697	1.00	0.00
ATOM 184	H	HIS A	16	134.662	4.329	-0.855	1.00	0.00
ATOM 185	HA	HIS A	16	132.122	5.341	0.239	1.00	0.00
ATOM 186	1HB	HIS A	16	133.506	2.814	0.771	1.00	0.00
ATOM 187	2HB	HIS A	16	133.115	3.715	2.233	1.00	0.00
ATOM 188	HD1	HIS A	16	130.511	4.334	2.522	1.00	0.00
ATOM 189	HD2	HIS A	16	131.414	1.452	-0.334	1.00	0.00
ATOM 190	HE1	HIS A	16	128.341	3.155	2.047	1.00	0.00
ATOM 191	HE2	HIS A	16	128.929	1.360	0.379	1.00	0.00
ATOM 192	N	GLY A	17	135.088	5.388	1.705	1.00	0.00

ATOM 193	CA	GLY A	17	135.958	6.216	2.519	1.00	0.00
ATOM 194	C	GLY A	17	137.253	5.516	2.881	1.00	0.00
ATOM 195	O	GLY A	17	137.419	5.048	4.007	1.00	0.00
ATOM 196	H	GLY A	17	135.368	4.483	1.458	1.00	0.00
ATOM 197	1HA	GLY A	17	136.190	7.120	1.975	1.00	0.00
ATOM 198	2HA	GLY A	17	135.438	6.480	3.428	1.00	0.00
ATOM 199	N	LEU A	18	138.173	5.445	1.924	1.00	0.00
ATOM 200	CA	LEU A	18	139.459	4.796	2.147	1.00	0.00
ATOM 201	C	LEU A	18	140.511	5.811	2.583	1.00	0.00
ATOM 202	O	LEU A	18	141.018	6.584	1.770	1.00	0.00
ATOM 203	CB	LEU A	18	139.920	4.080	0.876	1.00	0.00
ATOM 204	CG	LEU A	18	138.891	3.132	0.258	1.00	0.00
ATOM 205	CD1	LEU A	18	139.244	2.832	-1.190	1.00	0.00
ATOM 206	CD2	LEU A	18	138.800	1.846	1.066	1.00	0.00
ATOM 207	H	LEU A	18	137.981	5.839	1.046	1.00	0.00
ATOM 208	HA	LEU A	18	139.330	4.068	2.934	1.00	0.00
ATOM 209	1HB	LEU A	18	140.178	4.828	0.140	1.00	0.00
ATOM 210	2HB	LEU A	18	140.805	3.510	1.110	1.00	0.00
ATOM 211	HG	LEU A	18	137.920	3.607	0.273	1.00	0.00
ATOM 212	1HD1	LEU A	18	140.311	2.936	-1.330	1.00	0.00
ATOM 213	2HD1	LEU A	18	138.727	3.523	-1.838	1.00	0.00
ATOM 214	3HD1	LEU A	18	138.947	1.822	-1.430	1.00	0.00
ATOM 215	1HD2	LEU A	18	138.009	1.934	1.795	1.00	0.00
ATOM 216	2HD2	LEU A	18	139.738	1.672	1.571	1.00	0.00
ATOM 217	3HD2	LEU A	18	138.589	1.020	0.403	1.00	0.00
ATOM 218	N	GLU A	19	140.837	5.801	3.872	1.00	0.00
ATOM 219	CA	GLU A	19	141.830	6.719	4.417	1.00	0.00
ATOM 220	C	GLU A	19	142.803	5.984	5.335	1.00	0.00
ATOM 221	O	GLU A	19	142.669	4.782	5.563	1.00	0.00

ATOM 222	CB	GLU A	19	141.144	7.851	5.183	1.00	0.00
ATOM 223	CG	GLU A	19	140.169	7.365	6.242	1.00	0.00
ATOM 224	CD	GLU A	19	139.068	8.368	6.526	1.00	0.00
ATOM 225	OE1	GLU A	19	139.317	9.321	7.292	1.00	0.00
ATOM 226	OE2	GLU A	19	137.956	8.198	5.981	1.00	0.00
ATOM 227	H	GLU A	19	140.399	5.160	4.471	1.00	0.00
ATOM 228	HA	GLU A	19	142.383	7.138	3.590	1.00	0.00
ATOM 229	1HB	GLU A	19	141.899	8.451	5.668	1.00	0.00
ATOM 230	2HB	GLU A	19	140.602	8.467	4.481	1.00	0.00
ATOM 231	1HG	GLU A	19	139.717	6.445	5.903	1.00	0.00
ATOM 232	2HG	GLU A	19	140.713	7.181	7.157	1.00	0.00
ATOM 233	N	VAL A	20	143.782	6.716	5.858	1.00	0.00
ATOM 234	CA	VAL A	20	144.777	6.134	6.751	1.00	0.00
ATOM 235	C	VAL A	20	144.121	5.557	8.000	1.00	0.00
ATOM 236	O	VAL A	20	143.192	6.145	8.554	1.00	0.00
ATOM 237	CB	VAL A	20	145.832	7.173	7.171	1.00	0.00
ATOM 238	CG1	VAL A	20	146.959	6.510	7.947	1.00	0.00
ATOM 239	CG2	VAL A	20	146.373	7.907	5.954	1.00	0.00
ATOM 240	H	VAL A	20	143.837	7.669	5.638	1.00	0.00
ATOM 241	HA	VAL A	20	145.277	5.338	6.219	1.00	0.00
ATOM 242	HB	VAL A	20	145.357	7.897	7.819	1.00	0.00
ATOM 243	1HG1	VAL A	20	147.274	5.615	7.430	1.00	0.00
ATOM 244	2HG1	VAL A	20	146.611	6.249	8.936	1.00	0.00
ATOM 245	3HG1	VAL A	20	147.792	7.192	8.026	1.00	0.00
ATOM 246	1HG2	VAL A	20	146.325	7.258	5.091	1.00	0.00
ATOM 247	2HG2	VAL A	20	147.398	8.194	6.132	1.00	0.00
ATOM 248	3HG2	VAL A	20	145.778	8.790	5.772	1.00	0.00
ATOM 249	N	GLY A	21	144.611	4.402	8.440	1.00	0.00
ATOM 250	CA	GLY A	21	144.060	3.766	9.623	1.00	0.00

ATOM 251	C	GLY A	21	143.052	2.684	9.282	1.00	0.00
ATOM 252	O	GLY A	21	142.879	1.729	10.039	1.00	0.00
ATOM 253	H	GLY A	21	145.351	3.979	7.959	1.00	0.00
ATOM 254	1HA	GLY A	21	144.867	3.325	10.189	1.00	0.00
ATOM 255	2HA	GLY A	21	143.575	4.516	10.229	1.00	0.00
ATOM 256	N	SER A	22	142.387	2.835	8.142	1.00	0.00
ATOM 257	CA	SER A	22	141.391	1.865	7.703	1.00	0.00
ATOM 258	C	SER A	22	142.020	0.815	6.794	1.00	0.00
ATOM 259	O	SER A	22	143.073	1.045	6.198	1.00	0.00
ATOM 260	CB	SER A	22	140.248	2.570	6.974	1.00	0.00
ATOM 261	OG	SER A	22	139.563	3.461	7.837	1.00	0.00
ATOM 262	H	SER A	22	142.570	3.619	7.582	1.00	0.00
ATOM 263	HA	SER A	22	140.998	1.374	8.581	1.00	0.00
ATOM 264	1HB	SER A	22	140.646	3.131	6.142	1.00	0.00
ATOM 265	2HB	SER A	22	139.548	1.833	6.608	1.00	0.00
ATOM 266	HG	SER A	22	138.635	3.220	7.876	1.00	0.00
ATOM 267	N	LEU A	23	141.368	-0.338	6.690	1.00	0.00
ATOM 268	CA	LEU A	23	141.863	-1.425	5.852	1.00	0.00
ATOM 269	C	LEU A	23	141.319	-1.307	4.431	1.00	0.00
ATOM 270	O	LEU A	23	140.227	-0.781	4.216	1.00	0.00
ATOM 271	CB	LEU A	23	141.473	-2.777	6.451	1.00	0.00
ATOM 272	CG	LEU A	23	142.132	-3.107	7.790	1.00	0.00
ATOM 273	CD1	LEU A	23	141.223	-3.993	8.628	1.00	0.00
ATOM 274	CD2	LEU A	23	143.478	-3.780	7.569	1.00	0.00
ATOM 275	H	LEU A	23	140.533	-0.463	7.189	1.00	0.00
ATOM 276	HA	LEU A	23	142.940	-1.353	5.819	1.00	0.00
ATOM 277	1HB	LEU A	23	140.400	-2.790	6.586	1.00	0.00
ATOM 278	2HB	LEU A	23	141.738	-3.549	5.744	1.00	0.00
ATOM 279	HG	LEU A	23	142.300	-2.191	8.337	1.00	0.00

ATOM 280	1HD1	LEU A	23	140.326	-3.448	8.885	1.00	0.00
ATOM 281	2HD1	LEU A	23	141.738	-4.284	9.532	1.00	0.00
ATOM 282	3HD1	LEU A	23	140.960	-4.875	8.064	1.00	0.00
ATOM 283	1HD2	LEU A	23	144.046	-3.218	6.842	1.00	0.00
ATOM 284	2HD2	LEU A	23	143.323	-4.785	7.206	1.00	0.00
ATOM 285	3HD2	LEU A	23	144.021	-3.815	8.502	1.00	0.00
ATOM 286	N	ALA A	24	142.088	-1.802	3.466	1.00	0.00
ATOM 287	CA	ALA A	24	141.682	-1.753	2.067	1.00	0.00
ATOM 288	C	ALA A	24	142.361	-2.855	1.260	1.00	0.00
ATOM 289	O	ALA A	24	143.394	-3.389	1.666	1.00	0.00
ATOM 290	CB	ALA A	24	142.002	-0.390	1.473	1.00	0.00
ATOM 291	H	ALA A	24	142.947	-2.210	3.702	1.00	0.00
ATOM 292	HA	ALA A	24	140.613	-1.896	2.025	1.00	0.00
ATOM 293	1HB	ALA A	24	142.207	-0.495	0.418	1.00	0.00
ATOM 294	2HB	ALA A	24	142.867	0.025	1.969	1.00	0.00
ATOM 295	3HB	ALA A	24	141.158	0.270	1.612	1.00	0.00
ATOM 296	N	GLU A	25	141.774	-3.190	0.116	1.00	0.00
ATOM 297	CA	GLU A	25	142.323	-4.228	-0.749	1.00	0.00
ATOM 298	C	GLU A	25	142.602	-3.682	-2.145	1.00	0.00
ATOM 299	O	GLU A	25	141.870	-2.827	-2.646	1.00	0.00
ATOM 300	CB	GLU A	25	141.356	-5.412	-0.836	1.00	0.00
ATOM 301	CG	GLU A	25	142.003	-6.689	-1.347	1.00	0.00
ATOM 302	CD	GLU A	25	141.070	-7.505	-2.220	1.00	0.00
ATOM 303	OE1	GLU A	25	141.035	-8.742	-2.056	1.00	0.00
ATOM 304	OE2	GLU A	25	140.376	-6.906	-3.068	1.00	0.00
ATOM 305	H	GLU A	25	140.954	-2.728	-0.154	1.00	0.00
ATOM 306	HA	GLU A	25	143.252	-4.566	-0.315	1.00	0.00
ATOM 307	1HB	GLU A	25	140.955	-5.606	0.147	1.00	0.00
ATOM 308	2HB	GLU A	25	140.547	-5.152	-1.501	1.00	0.00

ATOM 309	1HG	GLU	A	25	142.877	-6.428	-1.926	1.00	0.00
ATOM 310	2HG	GLU	A	25	142.299	-7.291	-0.501	1.00	0.00
ATOM 311	N	VAL	A	26	143.665	-4.180	-2.768	1.00	0.00
ATOM 312	CA	VAL	A	26	144.042	-3.740	-4.107	1.00	0.00
ATOM 313	C	VAL	A	26	143.862	-4.863	-5.123	1.00	0.00
ATOM 314	O	VAL	A	26	144.363	-5.971	-4.934	1.00	0.00
ATOM 315	CB	VAL	A	26	145.503	-3.253	-4.149	1.00	0.00
ATOM 316	CG1	VAL	A	26	145.828	-2.646	-5.506	1.00	0.00
ATOM 317	CG2	VAL	A	26	145.767	-2.253	-3.033	1.00	0.00
ATOM 318	H	VAL	A	26	144.210	-4.857	-2.317	1.00	0.00
ATOM 319	HA	VAL	A	26	143.400	-2.915	-4.380	1.00	0.00
ATOM 320	HB	VAL	A	26	146.149	-4.106	-3.999	1.00	0.00
ATOM 321	1HG1	VAL	A	26	146.811	-2.968	-5.818	1.00	0.00
ATOM 322	2HG1	VAL	A	26	145.808	-1.570	-5.433	1.00	0.00
ATOM 323	3HG1	VAL	A	26	145.096	-2.972	-6.231	1.00	0.00
ATOM 324	1HG2	VAL	A	26	144.984	-2.323	-2.292	1.00	0.00
ATOM 325	2HG2	VAL	A	26	145.787	-1.253	-3.443	1.00	0.00
ATOM 326	3HG2	VAL	A	26	146.718	-2.471	-2.572	1.00	0.00
ATOM 327	N	LYS	A	27	143.143	-4.569	-6.201	1.00	0.00
ATOM 328	CA	LYS	A	27	142.897	-5.554	-7.249	1.00	0.00
ATOM 329	C	LYS	A	27	144.207	-6.026	-7.870	1.00	0.00
ATOM 330	O	LYS	A	27	145.009	-5.218	-8.341	1.00	0.00
ATOM 331	CB	LYS	A	27	141.989	-4.964	-8.329	1.00	0.00
ATOM 332	CG	LYS	A	27	142.465	-3.622	-8.858	1.00	0.00
ATOM 333	CD	LYS	A	27	142.184	-3.476	-10.346	1.00	0.00
ATOM 334	CE	LYS	A	27	143.418	-3.782	-11.178	1.00	0.00
ATOM 335	NZ	LYS	A	27	143.080	-4.003	-12.612	1.00	0.00
ATOM 336	H	LYS	A	27	142.769	-3.668	-6.295	1.00	0.00
ATOM 337	HA	LYS	A	27	142.402	-6.400	-6.797	1.00	0.00

ATOM 338	1HB	LYS A	27	141.939	-5.656	-9.158	1.00	0.00
ATOM 339	2HB	LYS A	27	140.999	-4.834	-7.920	1.00	0.00
ATOM 340	1HG	LYS A	27	141.954	-2.833	-8.327	1.00	0.00
ATOM 341	2HG	LYS A	27	143.530	-3.538	-8.693	1.00	0.00
ATOM 342	1HD	LYS A	27	141.398	-4.163	-10.622	1.00	0.00
ATOM 343	2HD	LYS A	27	141.866	-2.463	-10.545	1.00	0.00
ATOM 344	1HE	LYS A	27	144.102	-2.949	-11.104	1.00	0.00
ATOM 345	2HE	LYS A	27	143.890	-4.670	-10.787	1.00	0.00
ATOM 346	1HZ	LYS A	27	142.986	-3.090	-13.102	1.00	0.00
ATOM 347	2HZ	LYS A	27	142.183	-4.521	-12.692	1.00	0.00
ATOM 348	3HZ	LYS A	27	143.830	-4.557	-13.075	1.00	0.00
ATOM 349	N	GLU A	28	144.419	-7.337	-7.869	1.00	0.00
ATOM 350	CA	GLU A	28	145.632	-7.917	-8.434	1.00	0.00
ATOM 351	C	GLU A	28	145.583	-9.441	-8.380	1.00	0.00
ATOM 352	O	GLU A	28	144.657	-10.023	-7.815	1.00	0.00
ATOM 353	CB	GLU A	28	146.863	-7.404	-7.683	1.00	0.00
ATOM 354	CG	GLU A	28	147.851	-6.662	-8.569	1.00	0.00
ATOM 355	CD	GLU A	28	148.826	-7.593	-9.262	1.00	0.00
ATOM 356	OE1	GLU A	28	148.786	-7.674	-10.508	1.00	0.00
ATOM 357	OE2	GLU A	28	149.630	-8.240	-8.559	1.00	0.00
ATOM 358	H	GLU A	28	143.742	-7.931	-7.481	1.00	0.00
ATOM 359	HA	GLU A	28	145.696	-7.608	-9.466	1.00	0.00
ATOM 360	1HB	GLU A	28	146.540	-6.732	-6.902	1.00	0.00
ATOM 361	2HB	GLU A	28	147.376	-8.243	-7.235	1.00	0.00
ATOM 362	1HG	GLU A	28	147.300	-6.117	-9.322	1.00	0.00
ATOM 363	2HG	GLU A	28	148.410	-5.967	-7.960	1.00	0.00
ATOM 364	N	ASN A	29	146.587	-10.081	-8.971	1.00	0.00
ATOM 365	CA	ASN A	29	146.659	-11.537	-8.989	1.00	0.00
ATOM 366	C	ASN A	29	146.727	-12.096	-7.570	1.00	0.00

ATOM 367	O	ASN A	29	145.863	-12.868	-7.156	1.00	0.00
ATOM 368	CB	ASN A	29	147.876	-11.998	-9.793	1.00	0.00
ATOM 369	CG	ASN A	29	147.525	-12.348	-11.225	1.00	0.00
ATOM 370	OD1	ASN A	29	147.666	-13.495	-11.649	1.00	0.00
ATOM 371	ND2	ASN A	29	147.064	-11.357	-11.981	1.00	0.00
ATOM 372	H	ASN A	29	147.296	-9.562	-9.404	1.00	0.00
ATOM 373	HA	ASN A	29	145.763	-11.907	-9.466	1.00	0.00
ATOM 374	1HB	ASN A	29	148.612	-11.208	-9.806	1.00	0.00
ATOM 375	2HB	ASN A	29	148.302	-12.872	-9.322	1.00	0.00
ATOM 376	1HD2	ASN A	29	146.977	-10.468	-11.575	1.00	0.00
ATOM 377	2HD2	ASN A	29	146.828	-11.555	-12.911	1.00	0.00
ATOM 378	N	PRO A	30	147.761	-11.710	-6.802	1.00	0.00
ATOM 379	CA	PRO A	30	147.939	-12.176	-5.424	1.00	0.00
ATOM 380	C	PRO A	30	146.990	-11.480	-4.450	1.00	0.00
ATOM 381	O	PRO A	30	147.142	-10.292	-4.169	1.00	0.00
ATOM 382	CB	PRO A	30	149.388	-11.800	-5.116	1.00	0.00
ATOM 383	CG	PRO A	30	149.653	-10.605	-5.964	1.00	0.00
ATOM 384	CD	PRO A	30	148.839	-10.791	-7.218	1.00	0.00
ATOM 385	HA	PRO A	30	147.817	-13.246	-5.348	1.00	0.00
ATOM 386	1HB	PRO A	30	149.487	-11.571	-4.065	1.00	0.00
ATOM 387	2HB	PRO A	30	150.040	-12.621	-5.377	1.00	0.00
ATOM 388	1HG	PRO A	30	149.341	-9.711	-5.445	1.00	0.00
ATOM 389	2HG	PRO A	30	150.704	-10.553	-6.205	1.00	0.00
ATOM 390	1HD	PRO A	30	148.432	-9.846	-7.546	1.00	0.00
ATOM 391	2HD	PRO A	30	149.442	-11.233	-7.996	1.00	0.00
ATOM 392	N	PRO A	31	145.992	-12.211	-3.919	1.00	0.00
ATOM 393	CA	PRO A	31	145.023	-11.647	-2.973	1.00	0.00
ATOM 394	C	PRO A	31	145.649	-11.337	-1.618	1.00	0.00
ATOM 395	O	PRO A	31	145.627	-12.165	-0.709	1.00	0.00

ATOM 396	CB	PRO A	31	143.974	-12.754	-2.837	1.00	0.00
ATOM 397	CG	PRO A	31	144.706	-14.009	-3.159	1.00	0.00
ATOM 398	CD	PRO A	31	145.730	-13.636	-4.195	1.00	0.00
ATOM 399	HA	PRO A	31	144.560	-10.755	-3.367	1.00	0.00
ATOM 400	1HB	PRO A	31	143.591	-12.767	-1.827	1.00	0.00
ATOM 401	2HB	PRO A	31	143.168	-12.578	-3.532	1.00	0.00
ATOM 402	1HG	PRO A	31	145.191	-14.391	-2.272	1.00	0.00
ATOM 403	2HG	PRO A	31	144.021	-14.742	-3.558	1.00	0.00
ATOM 404	1HD	PRO A	31	146.628	-14.224	-4.067	1.00	0.00
ATOM 405	2HD	PRO A	31	145.329	-13.769	-5.188	1.00	0.00
ATOM 406	N	PHE A	32	146.208	-10.138	-1.491	1.00	0.00
ATOM 407	CA	PHE A	32	146.842	-9.717	-0.247	1.00	0.00
ATOM 408	C	PHE A	32	145.955	-8.733	0.510	1.00	0.00
ATOM 409	O	PHE A	32	145.061	-8.116	-0.069	1.00	0.00
ATOM 410	CB	PHE A	32	148.202	-9.079	-0.534	1.00	0.00
ATOM 411	CG	PHE A	32	148.167	-8.063	-1.638	1.00	0.00
ATOM 412	CD1	PHE A	32	148.842	-8.289	-2.827	1.00	0.00
ATOM 413	CD2	PHE A	32	147.460	-6.881	-1.488	1.00	0.00
ATOM 414	CE1	PHE A	32	148.812	-7.355	-3.845	1.00	0.00
ATOM 415	CE2	PHE A	32	147.426	-5.943	-2.503	1.00	0.00
ATOM 416	CZ	PHE A	32	148.103	-6.181	-3.684	1.00	0.00
ATOM 417	H	PHE A	32	146.194	-9.521	-2.253	1.00	0.00
ATOM 418	HA	PHE A	32	146.987	-10.596	0.363	1.00	0.00
ATOM 419	1HB	PHE A	32	148.556	-8.587	0.360	1.00	0.00
ATOM 420	2HB	PHE A	32	148.902	-9.853	-0.814	1.00	0.00
ATOM 421	HD1	PHE A	32	149.397	-9.207	-2.955	1.00	0.00
ATOM 422	HD2	PHE A	32	146.930	-6.694	-0.565	1.00	0.00
ATOM 423	HE1	PHE A	32	149.342	-7.544	-4.767	1.00	0.00
ATOM 424	HE2	PHE A	32	146.871	-5.026	-2.373	1.00	0.00

ATOM 425	HZ	PHE A	32	148.078	-5.450	-4.478	1.00	0.00
ATOM 426	N	TYR A	33	146.208	-8.594	1.807	1.00	0.00
ATOM 427	CA	TYR A	33	145.433	-7.685	2.643	1.00	0.00
ATOM 428	C	TYR A	33	146.350	-6.765	3.443	1.00	0.00
ATOM 429	O	TYR A	33	147.263	-7.226	4.129	1.00	0.00
ATOM 430	CB	TYR A	33	144.532	-8.475	3.592	1.00	0.00
ATOM 431	CG	TYR A	33	143.295	-9.036	2.928	1.00	0.00
ATOM 432	CD1	TYR A	33	143.012	-10.395	2.976	1.00	0.00
ATOM 433	CD2	TYR A	33	142.410	-8.205	2.252	1.00	0.00
ATOM 434	CE1	TYR A	33	141.882	-10.910	2.369	1.00	0.00
ATOM 435	CE2	TYR A	33	141.277	-8.713	1.643	1.00	0.00
ATOM 436	CZ	TYR A	33	141.019	-10.065	1.705	1.00	0.00
ATOM 437	OH	TYR A	33	139.893	-10.575	1.099	1.00	0.00
ATOM 438	H	TYR A	33	146.935	-9.114	2.211	1.00	0.00
ATOM 439	HA	TYR A	33	144.817	-7.082	1.994	1.00	0.00
ATOM 440	1HB	TYR A	33	145.091	-9.303	4.003	1.00	0.00
ATOM 441	2HB	TYR A	33	144.214	-7.829	4.398	1.00	0.00
ATOM 442	HD1	TYR A	33	143.690	-11.054	3.497	1.00	0.00
ATOM 443	HD2	TYR A	33	142.616	-7.145	2.205	1.00	0.00
ATOM 444	HE1	TYR A	33	141.680	-11.970	2.418	1.00	0.00
ATOM 445	HE2	TYR A	33	140.602	-8.050	1.122	1.00	0.00
ATOM 446	HH	TYR A	33	139.970	-10.479	0.147	1.00	0.00
ATOM 447	N	GLY A	34	146.102	-5.463	3.349	1.00	0.00
ATOM 448	CA	GLY A	34	146.914	-4.500	4.069	1.00	0.00
ATOM 449	C	GLY A	34	146.132	-3.264	4.467	1.00	0.00
ATOM 450	O	GLY A	34	145.114	-2.941	3.854	1.00	0.00
ATOM 451	H	GLY A	34	145.362	-5.154	2.786	1.00	0.00
ATOM 452	1HA	GLY A	34	147.303	-4.969	4.961	1.00	0.00
ATOM 453	2HA	GLY A	34	147.741	-4.202	3.441	1.00	0.00

ATOM 454	N	VAL A	35	146.607	-2.570	5.496	1.00	0.00
ATOM 455	CA	VAL A	35	145.946	-1.363	5.975	1.00	0.00
ATOM 456	C	VAL A	35	146.638	-0.111	5.444	1.00	0.00
ATOM 457	O	VAL A	35	147.863	-0.067	5.335	1.00	0.00
ATOM 458	CB	VAL A	35	145.919	-1.312	7.516	1.00	0.00
ATOM 459	CG1	VAL A	35	147.332	-1.295	8.078	1.00	0.00
ATOM 460	CG2	VAL A	35	145.129	-0.104	8.000	1.00	0.00
ATOM 461	H	VAL A	35	147.423	-2.879	5.943	1.00	0.00
ATOM 462	HA	VAL A	35	144.927	-1.377	5.618	1.00	0.00
ATOM 463	HB	VAL A	35	145.425	-2.204	7.875	1.00	0.00
ATOM 464	1HG1	VAL A	35	147.910	-0.533	7.577	1.00	0.00
ATOM 465	2HG1	VAL A	35	147.794	-2.259	7.920	1.00	0.00
ATOM 466	3HG1	VAL A	35	147.296	-1.083	9.136	1.00	0.00
ATOM 467	1HG2	VAL A	35	145.266	0.013	9.064	1.00	0.00
ATOM 468	2HG2	VAL A	35	144.082	-0.250	7.786	1.00	0.00
ATOM 469	3HG2	VAL A	35	145.480	0.781	7.492	1.00	0.00
ATOM 470	N	ILE A	36	145.845	0.904	5.117	1.00	0.00
ATOM 471	CA	ILE A	36	146.383	2.155	4.598	1.00	0.00
ATOM 472	C	ILE A	36	147.289	2.828	5.624	1.00	0.00
ATOM 473	O	ILE A	36	147.059	2.731	6.829	1.00	0.00
ATOM 474	CB	ILE A	36	145.257	3.132	4.201	1.00	0.00
ATOM 475	CG1	ILE A	36	144.266	2.447	3.258	1.00	0.00
ATOM 476	CG2	ILE A	36	145.840	4.379	3.551	1.00	0.00
ATOM 477	CD1	ILE A	36	143.139	3.348	2.805	1.00	0.00
ATOM 478	H	ILE A	36	144.876	0.808	5.227	1.00	0.00
ATOM 479	HA	ILE A	36	146.963	1.929	3.715	1.00	0.00
ATOM 480	HB	ILE A	36	144.739	3.433	5.099	1.00	0.00
ATOM 481	1HG1	ILE A	36	144.792	2.108	2.377	1.00	0.00
ATOM 482	2HG1	ILE A	36	143.830	1.596	3.760	1.00	0.00

ATOM 483	1HG2	ILE	A	36	146.314	4.111	2.618	1.00	0.00
ATOM 484	2HG2	ILE	A	36	146.571	4.821	4.211	1.00	0.00
ATOM 485	3HG2	ILE	A	36	145.049	5.089	3.363	1.00	0.00
ATOM 486	1HD1	ILE	A	36	142.702	2.953	1.899	1.00	0.00
ATOM 487	2HD1	ILE	A	36	143.524	4.339	2.615	1.00	0.00
ATOM 488	3HD1	ILE	A	36	142.384	3.396	3.576	1.00	0.00
ATOM 489	N	ARG	A	37	148.321	3.510	5.137	1.00	0.00
ATOM 490	CA	ARG	A	37	149.264	4.198	6.012	1.00	0.00
ATOM 491	C	ARG	A	37	149.478	5.638	5.558	1.00	0.00
ATOM 492	O	ARG	A	37	149.127	6.580	6.268	1.00	0.00
ATOM 493	CB	ARG	A	37	150.601	3.455	6.037	1.00	0.00
ATOM 494	CG	ARG	A	37	150.470	1.975	6.355	1.00	0.00
ATOM 495	CD	ARG	A	37	149.921	1.752	7.755	1.00	0.00
ATOM 496	NE	ARG	A	37	150.944	1.938	8.781	1.00	0.00
ATOM 497	CZ	ARG	A	37	150.768	1.639	10.066	1.00	0.00
ATOM 498	NH1	ARG	A	37	149.611	1.142	10.488	1.00	0.00
ATOM 499	NH2	ARG	A	37	151.752	1.837	10.933	1.00	0.00
ATOM 500	H	ARG	A	37	148.453	3.549	4.167	1.00	0.00
ATOM 501	HA	ARG	A	37	148.847	4.204	7.007	1.00	0.00
ATOM 502	1HB	ARG	A	37	151.073	3.554	5.071	1.00	0.00
ATOM 503	2HB	ARG	A	37	151.236	3.906	6.786	1.00	0.00
ATOM 504	1HG	ARG	A	37	149.800	1.521	5.641	1.00	0.00
ATOM 505	2HG	ARG	A	37	151.444	1.513	6.283	1.00	0.00
ATOM 506	1HD	ARG	A	37	149.119	2.454	7.930	1.00	0.00
ATOM 507	2HD	ARG	A	37	149.536	0.744	7.821	1.00	0.00
ATOM 508	HE	ARG	A	37	151.808	2.303	8.498	1.00	0.00
ATOM 509	1HH1	ARG	A	37	148.866	0.990	9.839	1.00	0.00
ATOM 510	2HH1	ARG	A	37	149.485	0.920	11.454	1.00	0.00
ATOM 511	1HH2	ARG	A	37	152.626	2.210	10.622	1.00	0.00

ATOM 512	2HH2	ARG	A	37	151.620	1.614	11.899	1.00	0.00
ATOM 513	N	TRP	A	38	150.056	5.802	4.372	1.00	0.00
ATOM 514	CA	TRP	A	38	150.316	7.130	3.827	1.00	0.00
ATOM 515	C	TRP	A	38	149.543	7.349	2.529	1.00	0.00
ATOM 516	O	TRP	A	38	149.546	6.497	1.641	1.00	0.00
ATOM 517	CB	TRP	A	38	151.817	7.323	3.584	1.00	0.00
ATOM 518	CG	TRP	A	38	152.143	8.561	2.801	1.00	0.00
ATOM 519	CD1	TRP	A	38	152.412	9.801	3.302	1.00	0.00
ATOM 520	CD2	TRP	A	38	152.227	8.676	1.376	1.00	0.00
ATOM 521	NE1	TRP	A	38	152.659	10.681	2.275	1.00	0.00
ATOM 522	CE2	TRP	A	38	152.551	10.014	1.082	1.00	0.00
ATOM 523	CE3	TRP	A	38	152.060	7.777	0.318	1.00	0.00
ATOM 524	CZ2	TRP	A	38	152.711	10.472	-0.223	1.00	0.00
ATOM 525	CZ3	TRP	A	38	152.220	8.233	-0.977	1.00	0.00
ATOM 526	CH2	TRP	A	38	152.543	9.570	-1.238	1.00	0.00
ATOM 527	H	TRP	A	38	150.314	5.013	3.852	1.00	0.00
ATOM 528	HA	TRP	A	38	149.984	7.857	4.554	1.00	0.00
ATOM 529	1HB	TRP	A	38	152.323	7.387	4.535	1.00	0.00
ATOM 530	2HB	TRP	A	38	152.198	6.472	3.037	1.00	0.00
ATOM 531	HD1	TRP	A	38	152.426	10.044	4.354	1.00	0.00
ATOM 532	HE1	TRP	A	38	152.878	11.631	2.379	1.00	0.00
ATOM 533	HE3	TRP	A	38	151.811	6.743	0.500	1.00	0.00
ATOM 534	HZ2	TRP	A	38	152.958	11.501	-0.442	1.00	0.00
ATOM 535	HZ3	TRP	A	38	152.095	7.552	-1.806	1.00	0.00
ATOM 536	HH2	TRP	A	38	152.658	9.883	-2.266	1.00	0.00
ATOM 537	N	ILE	A	39	148.894	8.503	2.427	1.00	0.00
ATOM 538	CA	ILE	A	39	148.126	8.850	1.238	1.00	0.00
ATOM 539	C	ILE	A	39	148.592	10.186	0.670	1.00	0.00
ATOM 540	O	ILE	A	39	148.308	11.242	1.233	1.00	0.00

ATOM 541	CB	ILE A	39	146.619	8.932	1.547	1.00	0.00
ATOM 542	CG1	ILE A	39	146.161	7.685	2.304	1.00	0.00
ATOM 543	CG2	ILE A	39	145.823	9.101	0.261	1.00	0.00
ATOM 544	CD1	ILE A	39	144.788	7.822	2.924	1.00	0.00
ATOM 545	H	ILE A	39	148.940	9.143	3.168	1.00	0.00
ATOM 546	HA	ILE A	39	148.283	8.078	0.499	1.00	0.00
ATOM 547	HB	ILE A	39	146.447	9.802	2.163	1.00	0.00
ATOM 548	1HG1	ILE A	39	146.135	6.847	1.623	1.00	0.00
ATOM 549	2HG1	ILE A	39	146.865	7.475	3.097	1.00	0.00
ATOM 550	1HG2	ILE A	39	145.935	8.217	-0.349	1.00	0.00
ATOM 551	2HG2	ILE A	39	146.190	9.961	-0.279	1.00	0.00
ATOM 552	3HG2	ILE A	39	144.779	9.244	0.500	1.00	0.00
ATOM 553	1HD1	ILE A	39	144.222	8.565	2.380	1.00	0.00
ATOM 554	2HD1	ILE A	39	144.887	8.128	3.954	1.00	0.00
ATOM 555	3HD1	ILE A	39	144.276	6.874	2.877	1.00	0.00
ATOM 556	N	GLY A	40	149.317	10.133	-0.444	1.00	0.00
ATOM 557	CA	GLY A	40	149.814	11.349	-1.058	1.00	0.00
ATOM 558	C	GLY A	40	150.305	11.134	-2.475	1.00	0.00
ATOM 559	O	GLY A	40	150.084	10.075	-3.064	1.00	0.00
ATOM 560	H	GLY A	40	149.517	9.263	-0.848	1.00	0.00
ATOM 561	1HA	GLY A	40	149.024	12.082	-1.071	1.00	0.00
ATOM 562	2HA	GLY A	40	150.630	11.729	-0.461	1.00	0.00
ATOM 563	N	GLN A	41	150.970	12.144	-3.024	1.00	0.00
ATOM 564	CA	GLN A	41	151.495	12.072	-4.380	1.00	0.00
ATOM 565	C	GLN A	41	152.978	12.443	-4.409	1.00	0.00
ATOM 566	O	GLN A	41	153.344	13.581	-4.113	1.00	0.00
ATOM 567	CB	GLN A	41	150.705	13.008	-5.294	1.00	0.00
ATOM 568	CG	GLN A	41	149.198	12.857	-5.161	1.00	0.00
ATOM 569	CD	GLN A	41	148.474	14.187	-5.206	1.00	0.00

ATOM 570	OE1	GLN A	41	148.498	14.954	-4.243	1.00	0.00
ATOM 571	NE2	GLN A	41	147.824	14.467	-6.327	1.00	0.00
ATOM 572	H	GLN A	41	151.111	12.961	-2.503	1.00	0.00
ATOM 573	HA	GLN A	41	151.378	11.058	-4.730	1.00	0.00
ATOM 574	1HB	GLN A	41	150.964	14.028	-5.055	1.00	0.00
ATOM 575	2HB	GLN A	41	150.976	12.807	-6.318	1.00	0.00
ATOM 576	1HG	GLN A	41	148.837	12.241	-5.970	1.00	0.00
ATOM 577	2HG	GLN A	41	148.979	12.376	-4.218	1.00	0.00
ATOM 578	1HE2	GLN A	41	147.848	13.808	-7.052	1.00	0.00
ATOM 579	2HE2	GLN A	41	147.348	15.321	-6.387	1.00	0.00
ATOM 580	N	PRO A	42	153.856	11.486	-4.764	1.00	0.00
ATOM 581	CA	PRO A	42	155.302	11.726	-4.824	1.00	0.00
ATOM 582	C	PRO A	42	155.661	12.868	-5.770	1.00	0.00
ATOM 583	O	PRO A	42	154.875	13.231	-6.645	1.00	0.00
ATOM 584	CB	PRO A	42	155.868	10.402	-5.348	1.00	0.00
ATOM 585	CG	PRO A	42	154.829	9.387	-5.017	1.00	0.00
ATOM 586	CD	PRO A	42	153.514	10.100	-5.132	1.00	0.00
ATOM 587	HA	PRO A	42	155.709	11.931	-3.845	1.00	0.00
ATOM 588	1HB	PRO A	42	156.027	10.473	-6.414	1.00	0.00
ATOM 589	2HB	PRO A	42	156.803	10.185	-4.853	1.00	0.00
ATOM 590	1HG	PRO A	42	154.876	8.569	-5.720	1.00	0.00
ATOM 591	2HG	PRO A	42	154.974	9.028	-4.009	1.00	0.00
ATOM 592	1HD	PRO A	42	153.144	10.050	-6.146	1.00	0.00
ATOM 593	2HD	PRO A	42	152.795	9.684	-4.443	1.00	0.00
ATOM 594	N	PRO A	43	156.860	13.453	-5.604	1.00	0.00
ATOM 595	CA	PRO A	43	157.321	14.559	-6.447	1.00	0.00
ATOM 596	C	PRO A	43	157.678	14.101	-7.857	1.00	0.00
ATOM 597	O	PRO A	43	158.830	13.773	-8.140	1.00	0.00
ATOM 598	CB	PRO A	43	158.567	15.062	-5.721	1.00	0.00

ATOM 599	CG	PRO A	43	159.073	13.877	-4.971	1.00	0.00
ATOM 600	CD	PRO A	43	157.858	13.080	-4.583	1.00	0.00
ATOM 601	HA	PRO A	43	156.587	15.349	-6.501	1.00	0.00
ATOM 602	1HB	PRO A	43	159.290	15.411	-6.444	1.00	0.00
ATOM 603	2HB	PRO A	43	158.299	15.866	-5.053	1.00	0.00
ATOM 604	1HG	PRO A	43	159.720	13.290	-5.607	1.00	0.00
ATOM 605	2HG	PRO A	43	159.606	14.201	-4.091	1.00	0.00
ATOM 606	1HD	PRO A	43	158.073	12.022	-4.624	1.00	0.00
ATOM 607	2HD	PRO A	43	157.522	13.360	-3.597	1.00	0.00
ATOM 608	N	GLY A	44	156.684	14.083	-8.737	1.00	0.00
ATOM 609	CA	GLY A	44	156.916	13.664	-10.106	1.00	0.00
ATOM 610	C	GLY A	44	155.650	13.186	-10.789	1.00	0.00
ATOM 611	O	GLY A	44	155.329	13.629	-11.892	1.00	0.00
ATOM 612	H	GLY A	44	155.785	14.355	-8.454	1.00	0.00
ATOM 613	1HA	GLY A	44	157.319	14.497	-10.662	1.00	0.00
ATOM 614	2HA	GLY A	44	157.637	12.861	-10.107	1.00	0.00
ATOM 615	N	LEU A	45	154.931	12.282	-10.134	1.00	0.00
ATOM 616	CA	LEU A	45	153.693	11.747	-10.689	1.00	0.00
ATOM 617	C	LEU A	45	152.520	12.016	-9.755	1.00	0.00
ATOM 618	O	LEU A	45	152.446	11.454	-8.661	1.00	0.00
ATOM 619	CB	LEU A	45	153.828	10.243	-10.936	1.00	0.00
ATOM 620	CG	LEU A	45	154.377	9.438	-9.755	1.00	0.00
ATOM 621	CD1	LEU A	45	153.938	7.983	-9.848	1.00	0.00
ATOM 622	CD2	LEU A	45	155.895	9.539	-9.700	1.00	0.00
ATOM 623	H	LEU A	45	155.237	11.968	-9.256	1.00	0.00
ATOM 624	HA	LEU A	45	153.510	12.242	-11.630	1.00	0.00
ATOM 625	1HB	LEU A	45	152.855	9.852	-11.190	1.00	0.00
ATOM 626	2HB	LEU A	45	154.487	10.095	-11.778	1.00	0.00
ATOM 627	HG	LEU A	45	153.980	9.846	-8.836	1.00	0.00

ATOM 628	1HD1	LEU	A	45	153.493	7.801	-10.814	1.00	0.00
ATOM 629	2HD1	LEU	A	45	153.214	7.776	-9.074	1.00	0.00
ATOM 630	3HD1	LEU	A	45	154.795	7.338	-9.720	1.00	0.00
ATOM 631	1HD2	LEU	A	45	156.206	9.731	-8.683	1.00	0.00
ATOM 632	2HD2	LEU	A	45	156.228	10.346	-10.335	1.00	0.00
ATOM 633	3HD2	LEU	A	45	156.331	8.611	-10.039	1.00	0.00
ATOM 634	N	ASN	A	46	151.603	12.876	-10.187	1.00	0.00
ATOM 635	CA	ASN	A	46	150.440	13.205	-9.375	1.00	0.00
ATOM 636	C	ASN	A	46	149.451	12.046	-9.365	1.00	0.00
ATOM 637	O	ASN	A	46	148.777	11.780	-10.359	1.00	0.00
ATOM 638	CB	ASN	A	46	149.762	14.467	-9.912	1.00	0.00
ATOM 639	CG	ASN	A	46	148.887	15.142	-8.874	1.00	0.00
ATOM 640	OD1	ASN	A	46	147.667	14.972	-8.867	1.00	0.00
ATOM 641	ND2	ASN	A	46	149.507	15.914	-7.989	1.00	0.00
ATOM 642	H	ASN	A	46	151.711	13.294	-11.066	1.00	0.00
ATOM 643	HA	ASN	A	46	150.777	13.388	-8.365	1.00	0.00
ATOM 644	1HB	ASN	A	46	150.518	15.169	-10.227	1.00	0.00
ATOM 645	2HB	ASN	A	46	149.145	14.203	-10.759	1.00	0.00
ATOM 646	1HD2	ASN	A	46	150.480	16.003	-8.054	1.00	0.00
ATOM 647	2HD2	ASN	A	46	148.966	16.362	-7.306	1.00	0.00
ATOM 648	N	GLU	A	47	149.371	11.360	-8.230	1.00	0.00
ATOM 649	CA	GLU	A	47	148.465	10.227	-8.080	1.00	0.00
ATOM 650	C	GLU	A	47	148.336	9.831	-6.614	1.00	0.00
ATOM 651	O	GLU	A	47	149.326	9.488	-5.968	1.00	0.00
ATOM 652	CB	GLU	A	47	148.954	9.034	-8.906	1.00	0.00
ATOM 653	CG	GLU	A	47	150.467	8.871	-8.922	1.00	0.00
ATOM 654	CD	GLU	A	47	150.949	8.024	-10.084	1.00	0.00
ATOM 655	OE1	GLU	A	47	151.281	6.841	-9.859	1.00	0.00
ATOM 656	OE2	GLU	A	47	150.993	8.543	-11.218	1.00	0.00

ATOM 657	H	GLU A	47	149.934	11.622	-7.474	1.00	0.00
ATOM 658	HA	GLU A	47	147.495	10.532	-8.444	1.00	0.00
ATOM 659	1HB	GLU A	47	148.522	8.130	-8.500	1.00	0.00
ATOM 660	2HB	GLU A	47	148.617	9.155	-9.925	1.00	0.00
ATOM 661	1HG	GLU A	47	150.921	9.846	-8.996	1.00	0.00
ATOM 662	2HG	GLU A	47	150.776	8.400	-8.000	1.00	0.00
ATOM 663	N	VAL A	48	147.114	9.870	-6.094	1.00	0.00
ATOM 664	CA	VAL A	48	146.872	9.503	-4.705	1.00	0.00
ATOM 665	C	VAL A	48	147.247	8.047	-4.462	1.00	0.00
ATOM 666	O	VAL A	48	146.529	7.136	-4.873	1.00	0.00
ATOM 667	CB	VAL A	48	145.398	9.717	-4.313	1.00	0.00
ATOM 668	CG1	VAL A	48	145.216	9.557	-2.812	1.00	0.00
ATOM 669	CG2	VAL A	48	144.916	11.084	-4.773	1.00	0.00
ATOM 670	H	VAL A	48	146.361	10.145	-6.656	1.00	0.00
ATOM 671	HA	VAL A	48	147.489	10.134	-4.079	1.00	0.00
ATOM 672	HB	VAL A	48	144.802	8.964	-4.807	1.00	0.00
ATOM 673	1HG1	VAL A	48	145.039	8.517	-2.579	1.00	0.00
ATOM 674	2HG1	VAL A	48	144.372	10.147	-2.486	1.00	0.00
ATOM 675	3HG1	VAL A	48	146.107	9.893	-2.304	1.00	0.00
ATOM 676	1HG2	VAL A	48	144.445	10.993	-5.741	1.00	0.00
ATOM 677	2HG2	VAL A	48	145.756	11.758	-4.844	1.00	0.00
ATOM 678	3HG2	VAL A	48	144.202	11.473	-4.062	1.00	0.00
ATOM 679	N	LEU A	49	148.379	7.832	-3.799	1.00	0.00
ATOM 680	CA	LEU A	49	148.848	6.483	-3.510	1.00	0.00
ATOM 681	C	LEU A	49	148.744	6.177	-2.020	1.00	0.00
ATOM 682	O	LEU A	49	149.376	6.837	-1.195	1.00	0.00
ATOM 683	CB	LEU A	49	150.295	6.312	-3.976	1.00	0.00
ATOM 684	CG	LEU A	49	150.530	6.565	-5.466	1.00	0.00
ATOM 685	CD1	LEU A	49	151.936	7.094	-5.703	1.00	0.00

ATOM 686	CD2	LEU A	49	150.295	5.292	-6.266	1.00	0.00
ATOM 687	H	LEU A	49	148.911	8.598	-3.500	1.00	0.00
ATOM 688	HA	LEU A	49	148.221	5.791	-4.051	1.00	0.00
ATOM 689	1HB	LEU A	49	150.916	6.994	-3.413	1.00	0.00
ATOM 690	2HB	LEU A	49	150.606	5.303	-3.753	1.00	0.00
ATOM 691	HG	LEU A	49	149.830	7.312	-5.812	1.00	0.00
ATOM 692	1HD1	LEU A	49	152.625	6.597	-5.035	1.00	0.00
ATOM 693	2HD1	LEU A	49	151.956	8.157	-5.515	1.00	0.00
ATOM 694	3HD1	LEU A	49	152.224	6.904	-6.725	1.00	0.00
ATOM 695	1HD2	LEU A	49	149.234	5.144	-6.403	1.00	0.00
ATOM 696	2HD2	LEU A	49	150.710	4.450	-5.731	1.00	0.00
ATOM 697	3HD2	LEU A	49	150.775	5.379	-7.229	1.00	0.00
ATOM 698	N	ALA A	50	147.942	5.175	-1.682	1.00	0.00
ATOM 699	CA	ALA A	50	147.757	4.783	-0.293	1.00	0.00
ATOM 700	C	ALA A	50	148.708	3.652	0.087	1.00	0.00
ATOM 701	O	ALA A	50	148.610	2.543	-0.438	1.00	0.00
ATOM 702	CB	ALA A	50	146.314	4.370	-0.048	1.00	0.00
ATOM 703	H	ALA A	50	147.465	4.685	-2.385	1.00	0.00
ATOM 704	HA	ALA A	50	147.971	5.644	0.324	1.00	0.00
ATOM 705	1HB	ALA A	50	145.880	4.013	-0.970	1.00	0.00
ATOM 706	2HB	ALA A	50	145.752	5.221	0.310	1.00	0.00
ATOM 707	3HB	ALA A	50	146.285	3.584	0.692	1.00	0.00
ATOM 708	N	GLY A	51	149.627	3.939	1.002	1.00	0.00
ATOM 709	CA	GLY A	51	150.582	2.936	1.435	1.00	0.00
ATOM 710	C	GLY A	51	149.944	1.857	2.288	1.00	0.00
ATOM 711	O	GLY A	51	149.667	2.072	3.467	1.00	0.00
ATOM 712	H	GLY A	51	149.659	4.841	1.386	1.00	0.00
ATOM 713	1HA	GLY A	51	151.024	2.476	0.563	1.00	0.00
ATOM 714	2HA	GLY A	51	151.360	3.419	2.007	1.00	0.00

ATOM 715	N	LEU A	52	149.711	0.693	1.690	1.00	0.00
ATOM 716	CA	LEU A	52	149.101	-0.422	2.404	1.00	0.00
ATOM 717	C	LEU A	52	150.167	-1.303	3.049	1.00	0.00
ATOM 718	O	LEU A	52	151.186	-1.613	2.434	1.00	0.00
ATOM 719	CB	LEU A	52	148.242	-1.257	1.453	1.00	0.00
ATOM 720	CG	LEU A	52	146.950	-0.583	0.988	1.00	0.00
ATOM 721	CD1	LEU A	52	146.322	-1.365	-0.155	1.00	0.00
ATOM 722	CD2	LEU A	52	145.973	-0.450	2.147	1.00	0.00
ATOM 723	H	LEU A	52	149.954	0.582	0.748	1.00	0.00
ATOM 724	HA	LEU A	52	148.471	-0.014	3.180	1.00	0.00
ATOM 725	1HB	LEU A	52	148.835	-1.494	0.581	1.00	0.00
ATOM 726	2HB	LEU A	52	147.981	-2.179	1.951	1.00	0.00
ATOM 727	HG	LEU A	52	147.179	0.409	0.627	1.00	0.00
ATOM 728	1HD1	LEU A	52	146.643	-2.395	-0.105	1.00	0.00
ATOM 729	2HD1	LEU A	52	146.632	-0.936	-1.097	1.00	0.00
ATOM 730	3HD1	LEU A	52	145.246	-1.319	-0.075	1.00	0.00
ATOM 731	1HD2	LEU A	52	144.964	-0.560	1.781	1.00	0.00
ATOM 732	2HD2	LEU A	52	146.087	0.521	2.604	1.00	0.00
ATOM 733	3HD2	LEU A	52	146.176	-1.219	2.878	1.00	0.00
ATOM 734	N	GLU A	53	149.923	-1.701	4.293	1.00	0.00
ATOM 735	CA	GLU A	53	150.860	-2.546	5.023	1.00	0.00
ATOM 736	C	GLU A	53	150.365	-3.987	5.075	1.00	0.00
ATOM 737	O	GLU A	53	149.400	-4.298	5.775	1.00	0.00
ATOM 738	CB	GLU A	53	151.064	-2.012	6.442	1.00	0.00
ATOM 739	CG	GLU A	53	152.062	-2.817	7.258	1.00	0.00
ATOM 740	CD	GLU A	53	151.663	-2.934	8.716	1.00	0.00
ATOM 741	OE1	GLU A	53	152.507	-2.640	9.588	1.00	0.00
ATOM 742	OE2	GLU A	53	150.505	-3.320	8.985	1.00	0.00
ATOM 743	H	GLU A	53	149.092	-1.420	4.731	1.00	0.00

ATOM 744	HA	GLU A	53	151.805	-2.522	4.499	1.00	0.00
ATOM 745	1HB	GLU A	53	151.418	-0.993	6.383	1.00	0.00
ATOM 746	2HB	GLU A	53	150.115	-2.025	6.958	1.00	0.00
ATOM 747	1HG	GLU A	53	152.132	-3.810	6.839	1.00	0.00
ATOM 748	2HG	GLU A	53	153.026	-2.334	7.201	1.00	0.00
ATOM 749	N	LEU A	54	151.031	-4.864	4.331	1.00	0.00
ATOM 750	CA	LEU A	54	150.656	-6.273	4.293	1.00	0.00
ATOM 751	C	LEU A	54	150.886	-6.932	5.649	1.00	0.00
ATOM 752	O	LEU A	54	151.925	-6.736	6.278	1.00	0.00
ATOM 753	CB	LEU A	54	151.457	-7.006	3.214	1.00	0.00
ATOM 754	CG	LEU A	54	151.439	-6.347	1.835	1.00	0.00
ATOM 755	CD1	LEU A	54	152.671	-6.744	1.038	1.00	0.00
ATOM 756	CD2	LEU A	54	150.171	-6.721	1.083	1.00	0.00
ATOM 757	H	LEU A	54	151.791	-4.556	3.794	1.00	0.00
ATOM 758	HA	LEU A	54	149.606	-6.331	4.051	1.00	0.00
ATOM 759	1HB	LEU A	54	152.483	-7.077	3.544	1.00	0.00
ATOM 760	2HB	LEU A	54	151.058	-8.004	3.116	1.00	0.00
ATOM 761	HG	LEU A	54	151.452	-5.273	1.957	1.00	0.00
ATOM 762	1HD1	LEU A	54	152.477	-6.611	-0.016	1.00	0.00
ATOM 763	2HD1	LEU A	54	152.908	-7.779	1.233	1.00	0.00
ATOM 764	3HD1	LEU A	54	153.505	-6.123	1.331	1.00	0.00
ATOM 765	1HD2	LEU A	54	149.358	-6.840	1.783	1.00	0.00
ATOM 766	2HD2	LEU A	54	150.328	-7.650	0.553	1.00	0.00
ATOM 767	3HD2	LEU A	54	149.927	-5.941	0.377	1.00	0.00
ATOM 768	N	GLU A	55	149.907	-7.714	6.094	1.00	0.00
ATOM 769	CA	GLU A	55	150.001	-8.401	7.377	1.00	0.00
ATOM 770	C	GLU A	55	151.060	-9.499	7.330	1.00	0.00
ATOM 771	O	GLU A	55	151.701	-9.799	8.336	1.00	0.00
ATOM 772	CB	GLU A	55	148.646	-8.998	7.759	1.00	0.00

ATOM 773	CG	GLU A	55	147.674	-7.981	8.333	1.00	0.00
ATOM 774	CD	GLU A	55	148.170	-7.364	9.626	1.00	0.00
ATOM 775	OE1	GLU A	55	148.415	-8.122	10.589	1.00	0.00
ATOM 776	OE2	GLU A	55	148.315	-6.125	9.676	1.00	0.00
ATOM 777	H	GLU A	55	149.103	-7.830	5.547	1.00	0.00
ATOM 778	HA	GLU A	55	150.288	-7.675	8.122	1.00	0.00
ATOM 779	1HB	GLU A	55	148.198	-9.437	6.880	1.00	0.00
ATOM 780	2HB	GLU A	55	148.802	-9.772	8.497	1.00	0.00
ATOM 781	1HG	GLU A	55	147.528	-7.193	7.609	1.00	0.00
ATOM 782	2HG	GLU A	55	146.730	-8.471	8.524	1.00	0.00
ATOM 783	N	ASP A	56	151.235	-10.095	6.155	1.00	0.00
ATOM 784	CA	ASP A	56	152.215	-11.161	5.978	1.00	0.00
ATOM 785	C	ASP A	56	153.472	-10.635	5.293	1.00	0.00
ATOM 786	O	ASP A	56	153.399	-10.016	4.231	1.00	0.00
ATOM 787	CB	ASP A	56	151.614	-12.305	5.159	1.00	0.00
ATOM 788	CG	ASP A	56	152.086	-13.665	5.635	1.00	0.00
ATOM 789	OD1	ASP A	56	153.314	-13.865	5.739	1.00	0.00
ATOM 790	OD2	ASP A	56	151.226	-14.531	5.903	1.00	0.00
ATOM 791	H	ASP A	56	150.692	-9.813	5.390	1.00	0.00
ATOM 792	HA	ASP A	56	152.481	-11.532	6.956	1.00	0.00
ATOM 793	1HB	ASP A	56	150.538	-12.270	5.239	1.00	0.00
ATOM 794	2HB	ASP A	56	151.900	-12.187	4.124	1.00	0.00
ATOM 795	N	GLU A	57	154.623	-10.886	5.908	1.00	0.00
ATOM 796	CA	GLU A	57	155.897	-10.437	5.358	1.00	0.00
ATOM 797	C	GLU A	57	156.146	-11.058	3.987	1.00	0.00
ATOM 798	O	GLU A	57	156.676	-12.164	3.883	1.00	0.00
ATOM 799	CB	GLU A	57	157.041	-10.794	6.308	1.00	0.00
ATOM 800	CG	GLU A	57	157.055	-9.966	7.582	1.00	0.00
ATOM 801	CD	GLU A	57	158.284	-10.222	8.432	1.00	0.00

ATOM 802	OE1	GLU A	57	158.123	-10.572	9.620	1.00	0.00
ATOM 803	OE2	GLU A	57	159.408	-10.075	7.908	1.00	0.00
ATOM 804	H	GLU A	57	154.616	-11.383	6.752	1.00	0.00
ATOM 805	HA	GLU A	57	155.852	-9.364	5.250	1.00	0.00
ATOM 806	1HB	GLU A	57	156.955	-11.835	6.582	1.00	0.00
ATOM 807	2HB	GLU A	57	157.980	-10.642	5.796	1.00	0.00
ATOM 808	1HG	GLU A	57	157.031	-8.919	7.317	1.00	0.00
ATOM 809	2HG	GLU A	57	156.176	-10.208	8.163	1.00	0.00
ATOM 810	N	CYS A	58	155.763	-10.338	2.938	1.00	0.00
ATOM 811	CA	CYS A	58	155.945	-10.818	1.573	1.00	0.00
ATOM 812	C	CYS A	58	157.246	-10.289	0.980	1.00	0.00
ATOM 813	O	CYS A	58	157.473	-9.080	0.932	1.00	0.00
ATOM 814	CB	CYS A	58	154.763	-10.394	0.699	1.00	0.00
ATOM 815	SG	CYS A	58	154.436	-11.507	-0.689	1.00	0.00
ATOM 816	H	CYS A	58	155.347	-9.463	3.085	1.00	0.00
ATOM 817	HA	CYS A	58	155.990	-11.897	1.605	1.00	0.00
ATOM 818	1HB	CYS A	58	153.871	-10.358	1.306	1.00	0.00
ATOM 819	2HB	CYS A	58	154.958	-9.412	0.295	1.00	0.00
ATOM 820	HG	CYS A	58	153.900	-11.032	-1.328	1.00	0.00
ATOM 821	N	ALA A	59	158.100	-11.203	0.529	1.00	0.00
ATOM 822	CA	ALA A	59	159.379	-10.828	-0.061	1.00	0.00
ATOM 823	C	ALA A	59	159.178	-10.053	-1.359	1.00	0.00
ATOM 824	O	ALA A	59	158.634	-10.579	-2.330	1.00	0.00
ATOM 825	CB	ALA A	59	160.228	-12.065	-0.310	1.00	0.00
ATOM 826	H	ALA A	59	157.863	-12.152	0.594	1.00	0.00
ATOM 827	HA	ALA A	59	159.900	-10.199	0.645	1.00	0.00
ATOM 828	1HB	ALA A	59	160.950	-11.858	-1.085	1.00	0.00
ATOM 829	2HB	ALA A	59	159.592	-12.882	-0.618	1.00	0.00
ATOM 830	3HB	ALA A	59	160.745	-12.336	0.600	1.00	0.00

ATOM 831	N	GLY A	60	159.621	-8.800	-1.369	1.00	0.00
ATOM 832	CA	GLY A	60	159.480	-7.973	-2.552	1.00	0.00
ATOM 833	C	GLY A	60	159.106	-6.542	-2.218	1.00	0.00
ATOM 834	O	GLY A	60	159.440	-5.617	-2.959	1.00	0.00
ATOM 835	H	GLY A	60	160.046	-8.434	-0.565	1.00	0.00
ATOM 836	1HA	GLY A	60	160.416	-7.972	-3.091	1.00	0.00
ATOM 837	2HA	GLY A	60	158.713	-8.396	-3.184	1.00	0.00
ATOM 838	N	CYS A	61	158.411	-6.360	-1.100	1.00	0.00
ATOM 839	CA	CYS A	61	157.991	-5.031	-0.668	1.00	0.00
ATOM 840	C	CYS A	61	159.058	-4.381	0.206	1.00	0.00
ATOM 841	O	CYS A	61	160.067	-5.004	0.538	1.00	0.00
ATOM 842	CB	CYS A	61	156.669	-5.115	0.097	1.00	0.00
ATOM 843	SG	CYS A	61	155.341	-5.938	-0.813	1.00	0.00
ATOM 844	H	CYS A	61	158.176	-7.137	-0.552	1.00	0.00
ATOM 845	HA	CYS A	61	157.848	-4.426	-1.552	1.00	0.00
ATOM 846	1HB	CYS A	61	156.827	-5.664	1.013	1.00	0.00
ATOM 847	2HB	CYS A	61	156.337	-4.115	0.334	1.00	0.00
ATOM 848	HG	CYS A	61	154.750	-5.260	-1.151	1.00	0.00
ATOM 849	N	THR A	62	158.829	-3.125	0.574	1.00	0.00
ATOM 850	CA	THR A	62	159.770	-2.390	1.410	1.00	0.00
ATOM 851	C	THR A	62	159.230	-2.229	2.827	1.00	0.00
ATOM 852	O	THR A	62	158.159	-2.740	3.155	1.00	0.00
ATOM 853	CB	THR A	62	160.058	-1.016	0.803	1.00	0.00
ATOM 854	OG1	THR A	62	158.932	-0.537	0.089	1.00	0.00
ATOM 855	CG2	THR A	62	161.237	-1.016	-0.146	1.00	0.00
ATOM 856	H	THR A	62	158.007	-2.681	0.277	1.00	0.00
ATOM 857	HA	THR A	62	160.690	-2.956	1.450	1.00	0.00
ATOM 858	HB	THR A	62	160.276	-0.320	1.600	1.00	0.00
ATOM 859	HG1	THR A	62	158.208	-0.381	0.700	1.00	0.00

ATOM 860	1HG2	THR	A	62	162.101	-0.600	0.352	1.00	0.00
ATOM 861	2HG2	THR	A	62	161.000	-0.419	-1.015	1.00	0.00
ATOM 862	3HG2	THR	A	62	161.453	-2.029	-0.453	1.00	0.00
ATOM 863	N	ASP	A	63	159.978	-1.518	3.663	1.00	0.00
ATOM 864	CA	ASP	A	63	159.574	-1.291	5.046	1.00	0.00
ATOM 865	C	ASP	A	63	158.917	0.076	5.203	1.00	0.00
ATOM 866	O	ASP	A	63	159.058	0.729	6.238	1.00	0.00
ATOM 867	CB	ASP	A	63	160.782	-1.399	5.977	1.00	0.00
ATOM 868	CG	ASP	A	63	161.849	-0.367	5.663	1.00	0.00
ATOM 869	OD1	ASP	A	63	162.137	-0.158	4.466	1.00	0.00
ATOM 870	OD2	ASP	A	63	162.395	0.231	6.613	1.00	0.00
ATOM 871	H	ASP	A	63	160.822	-1.137	3.343	1.00	0.00
ATOM 872	HA	ASP	A	63	158.857	-2.054	5.312	1.00	0.00
ATOM 873	1HB	ASP	A	63	160.458	-1.253	6.997	1.00	0.00
ATOM 874	2HB	ASP	A	63	161.218	-2.382	5.879	1.00	0.00
ATOM 875	N	GLY	A	64	158.199	0.504	4.170	1.00	0.00
ATOM 876	CA	GLY	A	64	157.531	1.793	4.215	1.00	0.00
ATOM 877	C	GLY	A	64	158.292	2.866	3.462	1.00	0.00
ATOM 878	O	GLY	A	64	158.356	4.014	3.901	1.00	0.00
ATOM 879	H	GLY	A	64	158.122	-0.059	3.372	1.00	0.00
ATOM 880	1HA	GLY	A	64	156.549	1.691	3.779	1.00	0.00
ATOM 881	2HA	GLY	A	64	157.427	2.096	5.245	1.00	0.00
ATOM 882	N	THR	A	65	158.870	2.492	2.325	1.00	0.00
ATOM 883	CA	THR	A	65	159.630	3.431	1.509	1.00	0.00
ATOM 884	C	THR	A	65	159.197	3.358	0.049	1.00	0.00
ATOM 885	O	THR	A	65	159.314	2.313	-0.592	1.00	0.00
ATOM 886	CB	THR	A	65	161.127	3.144	1.624	1.00	0.00
ATOM 887	OG1	THR	A	65	161.357	1.761	1.838	1.00	0.00
ATOM 888	CG2	THR	A	65	161.798	3.899	2.751	1.00	0.00

ATOM 889	H	THR A	65	158.782	1.562	2.027	1.00	0.00
ATOM 890	HA	THR A	65	159.435	4.427	1.880	1.00	0.00
ATOM 891	HB	THR A	65	161.611	3.429	0.702	1.00	0.00
ATOM 892	HG1	THR A	65	161.036	1.514	2.708	1.00	0.00
ATOM 893	1HG2	THR A	65	161.522	4.942	2.700	1.00	0.00
ATOM 894	2HG2	THR A	65	162.870	3.806	2.660	1.00	0.00
ATOM 895	3HG2	THR A	65	161.480	3.489	3.699	1.00	0.00
ATOM 896	N	PHE A	66	158.697	4.474	-0.471	1.00	0.00
ATOM 897	CA	PHE A	66	158.247	4.536	-1.858	1.00	0.00
ATOM 898	C	PHE A	66	159.181	5.403	-2.695	1.00	0.00
ATOM 899	O	PHE A	66	159.203	6.625	-2.553	1.00	0.00
ATOM 900	CB	PHE A	66	156.821	5.087	-1.927	1.00	0.00
ATOM 901	CG	PHE A	66	156.154	4.856	-3.253	1.00	0.00
ATOM 902	CD1	PHE A	66	155.945	3.569	-3.724	1.00	0.00
ATOM 903	CD2	PHE A	66	155.734	5.925	-4.028	1.00	0.00
ATOM 904	CE1	PHE A	66	155.330	3.354	-4.942	1.00	0.00
ATOM 905	CE2	PHE A	66	155.120	5.716	-5.248	1.00	0.00
ATOM 906	CZ	PHE A	66	154.917	4.429	-5.706	1.00	0.00
ATOM 907	H	PHE A	66	158.629	5.274	0.089	1.00	0.00
ATOM 908	HA	PHE A	66	158.255	3.531	-2.254	1.00	0.00
ATOM 909	1HB	PHE A	66	156.221	4.611	-1.167	1.00	0.00
ATOM 910	2HB	PHE A	66	156.845	6.151	-1.747	1.00	0.00
ATOM 911	HD1	PHE A	66	156.266	2.729	-3.128	1.00	0.00
ATOM 912	HD2	PHE A	66	155.892	6.932	-3.671	1.00	0.00
ATOM 913	HE1	PHE A	66	155.174	2.346	-5.299	1.00	0.00
ATOM 914	HE2	PHE A	66	154.798	6.558	-5.843	1.00	0.00
ATOM 915	HZ	PHE A	66	154.437	4.263	-6.659	1.00	0.00
ATOM 916	N	ARG A	67	159.951	4.762	-3.568	1.00	0.00
ATOM 917	CA	ARG A	67	160.888	5.474	-4.429	1.00	0.00

ATOM 918	C	ARG A	67	161.917	6.237	-3.601	1.00	0.00
ATOM 919	O	ARG A	67	162.338	7.333	-3.971	1.00	0.00
ATOM 920	CB	ARG A	67	160.136	6.442	-5.345	1.00	0.00
ATOM 921	CG	ARG A	67	159.205	5.749	-6.328	1.00	0.00
ATOM 922	CD	ARG A	67	159.131	6.501	-7.648	1.00	0.00
ATOM 923	NE	ARG A	67	158.614	5.661	-8.726	1.00	0.00
ATOM 924	CZ	ARG A	67	158.732	5.959	-10.018	1.00	0.00
ATOM 925	NH1	ARG A	67	159.348	7.072	-10.396	1.00	0.00
ATOM 926	NH2	ARG A	67	158.234	5.140	-10.935	1.00	0.00
ATOM 927	H	ARG A	67	159.888	3.786	-3.635	1.00	0.00
ATOM 928	HA	ARG A	67	161.402	4.744	-5.036	1.00	0.00
ATOM 929	1HB	ARG A	67	159.547	7.112	-4.737	1.00	0.00
ATOM 930	2HB	ARG A	67	160.855	7.019	-5.908	1.00	0.00
ATOM 931	1HG	ARG A	67	159.572	4.751	-6.514	1.00	0.00
ATOM 932	2HG	ARG A	67	158.216	5.699	-5.896	1.00	0.00
ATOM 933	1HD	ARG A	67	158.480	7.353	-7.525	1.00	0.00
ATOM 934	2HD	ARG A	67	160.122	6.839	-7.911	1.00	0.00
ATOM 935	HE	ARG A	67	158.156	4.832	-8.475	1.00	0.00
ATOM 936	1HH1	ARG A	67	159.726	7.693	-9.711	1.00	0.00
ATOM 937	2HH1	ARG A	67	159.433	7.290	-11.369	1.00	0.00
ATOM 938	1HH2	ARG A	67	157.770	4.299	-10.655	1.00	0.00
ATOM 939	2HH2	ARG A	67	158.323	5.363	-11.906	1.00	0.00
ATOM 940	N	GLY A	68	162.316	5.650	-2.477	1.00	0.00
ATOM 941	CA	GLY A	68	163.293	6.288	-1.614	1.00	0.00
ATOM 942	C	GLY A	68	162.707	7.451	-0.837	1.00	0.00
ATOM 943	O	GLY A	68	163.417	8.399	-0.497	1.00	0.00
ATOM 944	H	GLY A	68	161.946	4.777	-2.233	1.00	0.00
ATOM 945	1HA	GLY A	68	163.671	5.557	-0.914	1.00	0.00
ATOM 946	2HA	GLY A	68	164.111	6.649	-2.219	1.00	0.00

ATOM 947	N	THR A	69	161.410	7.382	-0.558	1.00	0.00
ATOM 948	CA	THR A	69	160.730	8.437	0.183	1.00	0.00
ATOM 949	C	THR A	69	159.961	7.861	1.368	1.00	0.00
ATOM 950	O	THR A	69	158.814	7.435	1.229	1.00	0.00
ATOM 951	CB	THR A	69	159.775	9.199	-0.736	1.00	0.00
ATOM 952	OG1	THR A	69	160.414	9.534	-1.956	1.00	0.00
ATOM 953	CG2	THR A	69	159.252	10.482	-0.126	1.00	0.00
ATOM 954	H	THR A	69	160.899	6.601	-0.857	1.00	0.00
ATOM 955	HA	THR A	69	161.481	9.119	0.554	1.00	0.00
ATOM 956	HB	THR A	69	158.926	8.569	-0.959	1.00	0.00
ATOM 957	HG1	THR A	69	159.785	9.968	-2.538	1.00	0.00
ATOM 958	1HG2	THR A	69	160.058	10.996	0.376	1.00	0.00
ATOM 959	2HG2	THR A	69	158.474	10.251	0.586	1.00	0.00
ATOM 960	3HG2	THR A	69	158.852	11.114	-0.905	1.00	0.00
ATOM 961	N	ARG A	70	160.601	7.852	2.533	1.00	0.00
ATOM 962	CA	ARG A	70	159.977	7.329	3.742	1.00	0.00
ATOM 963	C	ARG A	70	158.734	8.134	4.107	1.00	0.00
ATOM 964	O	ARG A	70	158.803	9.349	4.297	1.00	0.00
ATOM 965	CB	ARG A	70	160.971	7.350	4.905	1.00	0.00
ATOM 966	CG	ARG A	70	160.431	6.721	6.179	1.00	0.00
ATOM 967	CD	ARG A	70	161.137	7.265	7.410	1.00	0.00
ATOM 968	NE	ARG A	70	162.447	6.649	7.608	1.00	0.00
ATOM 969	CZ	ARG A	70	163.112	6.674	8.761	1.00	0.00
ATOM 970	NH1	ARG A	70	162.594	7.282	9.820	1.00	0.00
ATOM 971	NH2	ARG A	70	164.298	6.088	8.854	1.00	0.00
ATOM 972	H	ARG A	70	161.513	8.206	2.580	1.00	0.00
ATOM 973	HA	ARG A	70	159.684	6.308	3.550	1.00	0.00
ATOM 974	1HB	ARG A	70	161.861	6.811	4.612	1.00	0.00
ATOM 975	2HB	ARG A	70	161.236	8.375	5.119	1.00	0.00

ATOM 976	1HG	ARG	A	70	159.376	6.937	6.256	1.00	0.00
ATOM 977	2HG	ARG	A	70	160.579	5.652	6.132	1.00	0.00
ATOM 978	1HD	ARG	A	70	161.265	8.331	7.295	1.00	0.00
ATOM 979	2HD	ARG	A	70	160.523	7.069	8.277	1.00	0.00
ATOM 980	HE	ARG	A	70	162.853	6.193	6.841	1.00	0.00
ATOM 981	1HH1	ARG	A	70	161.700	7.725	9.757	1.00	0.00
ATOM 982	2HH1	ARG	A	70	163.099	7.296	10.684	1.00	0.00
ATOM 983	1HH2	ARG	A	70	164.693	5.628	8.059	1.00	0.00
ATOM 984	2HH2	ARG	A	70	164.798	6.107	9.720	1.00	0.00
ATOM 985	N	TYR	A	71	157.599	7.450	4.202	1.00	0.00
ATOM 986	CA	TYR	A	71	156.340	8.102	4.544	1.00	0.00
ATOM 987	C	TYR	A	71	155.897	7.724	5.954	1.00	0.00
ATOM 988	O	TYR	A	71	155.405	8.564	6.707	1.00	0.00
ATOM 989	CB	TYR	A	71	155.254	7.720	3.537	1.00	0.00
ATOM 990	CG	TYR	A	71	155.396	8.412	2.201	1.00	0.00
ATOM 991	CD1	TYR	A	71	155.303	7.697	1.013	1.00	0.00
ATOM 992	CD2	TYR	A	71	155.622	9.780	2.126	1.00	0.00
ATOM 993	CE1	TYR	A	71	155.433	8.326	-0.211	1.00	0.00
ATOM 994	CE2	TYR	A	71	155.753	10.417	0.906	1.00	0.00
ATOM 995	CZ	TYR	A	71	155.657	9.685	-0.259	1.00	0.00
ATOM 996	OH	TYR	A	71	155.787	10.315	-1.475	1.00	0.00
ATOM 997	H	TYR	A	71	157.608	6.484	4.040	1.00	0.00
ATOM 998	HA	TYR	A	71	156.497	9.169	4.503	1.00	0.00
ATOM 999	1HB	TYR	A	71	155.291	6.655	3.365	1.00	0.00
ATOM 1000	2HB	TYR	A	71	154.288	7.980	3.945	1.00	0.00
ATOM 1001	HD1	TYR	A	71	155.127	6.632	1.054	1.00	0.00
ATOM 1002	HD2	TYR	A	71	155.697	10.351	3.040	1.00	0.00
ATOM 1003	HE1	TYR	A	71	155.358	7.753	-1.123	1.00	0.00
ATOM 1004	HE2	TYR	A	71	155.928	11.482	0.869	1.00	0.00

ATOM 1005	HH	TYR A	71	154.930	10.355	-1.908	1.00	0.00
ATOM 1006	N	PHE A	72	156.076	6.455	6.305	1.00	0.00
ATOM 1007	CA	PHE A	72	155.696	5.966	7.625	1.00	0.00
ATOM 1008	C	PHE A	72	156.641	4.861	8.088	1.00	0.00
ATOM 1009	O	PHE A	72	157.508	4.418	7.337	1.00	0.00
ATOM 1010	CB	PHE A	72	154.258	5.448	7.604	1.00	0.00
ATOM 1011	CG	PHE A	72	153.990	4.464	6.500	1.00	0.00
ATOM 1012	CD1	PHE A	72	153.698	4.904	5.218	1.00	0.00
ATOM 1013	CD2	PHE A	72	154.029	3.101	6.745	1.00	0.00
ATOM 1014	CE1	PHE A	72	153.452	4.002	4.201	1.00	0.00
ATOM 1015	CE2	PHE A	72	153.783	2.194	5.730	1.00	0.00
ATOM 1016	CZ	PHE A	72	153.494	2.645	4.458	1.00	0.00
ATOM 1017	H	PHE A	72	156.474	5.833	5.661	1.00	0.00
ATOM 1018	HA	PHE A	72	155.762	6.792	8.316	1.00	0.00
ATOM 1019	1HB	PHE A	72	154.044	4.958	8.542	1.00	0.00
ATOM 1020	2HB	PHE A	72	153.584	6.282	7.478	1.00	0.00
ATOM 1021	HD1	PHE A	72	153.665	5.965	5.017	1.00	0.00
ATOM 1022	HD2	PHE A	72	154.255	2.748	7.740	1.00	0.00
ATOM 1023	HE1	PHE A	72	153.225	4.358	3.207	1.00	0.00
ATOM 1024	HE2	PHE A	72	153.817	1.134	5.933	1.00	0.00
ATOM 1025	HZ	PHE A	72	153.302	1.938	3.664	1.00	0.00
ATOM 1026	N	THR A	73	156.464	4.421	9.330	1.00	0.00
ATOM 1027	CA	THR A	73	157.299	3.368	9.893	1.00	0.00
ATOM 1028	C	THR A	73	156.513	2.070	10.043	1.00	0.00
ATOM 1029	O	THR A	73	155.528	2.011	10.779	1.00	0.00
ATOM 1030	CB	THR A	73	157.855	3.800	11.251	1.00	0.00
ATOM 1031	OG1	THR A	73	158.737	2.819	11.768	1.00	0.00
ATOM 1032	CG2	THR A	73	156.779	4.043	12.287	1.00	0.00
ATOM 1033	H	THR A	73	155.755	4.813	9.880	1.00	0.00

ATOM 1034	HA	THR A	73	158.123	3.199	9.215	1.00	0.00
ATOM 1035	HB	THR A	73	158.407	4.721	11.126	1.00	0.00
ATOM 1036	HG1	THR A	73	159.362	2.559	11.087	1.00	0.00
ATOM 1037	1HG2	THR A	73	156.697	3.178	12.930	1.00	0.00
ATOM 1038	2HG2	THR A	73	155.835	4.216	11.793	1.00	0.00
ATOM 1039	3HG2	THR A	73	157.039	4.908	12.880	1.00	0.00
ATOM 1040	N	CYS A	74	156.954	1.031	9.342	1.00	0.00
ATOM 1041	CA	CYS A	74	156.291	-0.267	9.397	1.00	0.00
ATOM 1042	C	CYS A	74	157.312	-1.400	9.369	1.00	0.00
ATOM 1043	O	CYS A	74	158.519	-1.162	9.326	1.00	0.00
ATOM 1044	CB	CYS A	74	155.315	-0.415	8.228	1.00	0.00
ATOM 1045	SG	CYS A	74	153.644	0.174	8.585	1.00	0.00
ATOM 1046	H	CYS A	74	157.745	1.139	8.773	1.00	0.00
ATOM 1047	HA	CYS A	74	155.740	-0.318	10.324	1.00	0.00
ATOM 1048	1HB	CYS A	74	155.687	0.147	7.385	1.00	0.00
ATOM 1049	2HB	CYS A	74	155.246	-1.458	7.957	1.00	0.00
ATOM 1050	HG	CYS A	74	153.401	0.807	7.905	1.00	0.00
ATOM 1051	N	ALA A	75	156.818	-2.634	9.393	1.00	0.00
ATOM 1052	CA	ALA A	75	157.687	-3.805	9.371	1.00	0.00
ATOM 1053	C	ALA A	75	158.283	-4.020	7.984	1.00	0.00
ATOM 1054	O	ALA A	75	157.729	-3.566	6.982	1.00	0.00
ATOM 1055	CB	ALA A	75	156.917	-5.040	9.814	1.00	0.00
ATOM 1056	H	ALA A	75	155.847	-2.760	9.427	1.00	0.00
ATOM 1057	HA	ALA A	75	158.489	-3.638	10.075	1.00	0.00
ATOM 1058	1HB	ALA A	75	155.867	-4.905	9.601	1.00	0.00
ATOM 1059	2HB	ALA A	75	157.053	-5.188	10.875	1.00	0.00
ATOM 1060	3HB	ALA A	75	157.284	-5.905	9.281	1.00	0.00
ATOM 1061	N	LEU A	76	159.415	-4.714	7.933	1.00	0.00
ATOM 1062	CA	LEU A	76	160.087	-4.989	6.668	1.00	0.00

ATOM 1063	C	LEU A	76	159.292	-5.989	5.836	1.00	0.00
ATOM 1064	O	LEU A	76	158.703	-6.928	6.371	1.00	0.00
ATOM 1065	CB	LEU A	76	161.497	-5.526	6.922	1.00	0.00
ATOM 1066	CG	LEU A	76	162.526	-4.473	7.335	1.00	0.00
ATOM 1067	CD1	LEU A	76	163.556	-5.076	8.278	1.00	0.00
ATOM 1068	CD2	LEU A	76	163.205	-3.884	6.109	1.00	0.00
ATOM 1069	H	LEU A	76	159.809	-5.049	8.766	1.00	0.00
ATOM 1070	HA	LEU A	76	160.158	-4.060	6.123	1.00	0.00
ATOM 1071	1HB	LEU A	76	161.440	-6.270	7.703	1.00	0.00
ATOM 1072	2HB	LEU A	76	161.846	-6.002	6.018	1.00	0.00
ATOM 1073	HG	LEU A	76	162.024	-3.672	7.858	1.00	0.00
ATOM 1074	1HD1	LEU A	76	164.227	-4.301	8.621	1.00	0.00
ATOM 1075	2HD1	LEU A	76	164.119	-5.836	7.758	1.00	0.00
ATOM 1076	3HD1	LEU A	76	163.054	-5.516	9.127	1.00	0.00
ATOM 1077	1HD2	LEU A	76	164.119	-4.423	5.908	1.00	0.00
ATOM 1078	2HD2	LEU A	76	163.435	-2.843	6.288	1.00	0.00
ATOM 1079	3HD2	LEU A	76	162.545	-3.964	5.258	1.00	0.00
ATOM 1080	N	LYS A	77	159.280	-5.781	4.523	1.00	0.00
ATOM 1081	CA	LYS A	77	158.557	-6.664	3.615	1.00	0.00
ATOM 1082	C	LYS A	77	157.066	-6.671	3.934	1.00	0.00
ATOM 1083	O	LYS A	77	156.405	-7.706	3.838	1.00	0.00
ATOM 1084	CB	LYS A	77	159.116	-8.086	3.701	1.00	0.00
ATOM 1085	CG	LYS A	77	160.612	-8.168	3.444	1.00	0.00
ATOM 1086	CD	LYS A	77	160.947	-7.836	1.998	1.00	0.00
ATOM 1087	CE	LYS A	77	162.232	-7.030	1.896	1.00	0.00
ATOM 1088	NZ	LYS A	77	163.397	-7.769	2.455	1.00	0.00
ATOM 1089	H	LYS A	77	159.769	-5.015	4.155	1.00	0.00
ATOM 1090	HA	LYS A	77	158.696	-6.293	2.611	1.00	0.00
ATOM 1091	1HB	LYS A	77	158.921	-8.478	4.689	1.00	0.00

ATOM 1092	2HB	LYS A	77	158.612	-8.703	2.972	1.00	0.00
ATOM 1093	1HG	LYS A	77	161.118	-7.467	4.090	1.00	0.00
ATOM 1094	2HG	LYS A	77	160.950	-9.171	3.661	1.00	0.00
ATOM 1095	1HD	LYS A	77	161.066	-8.755	1.445	1.00	0.00
ATOM 1096	2HD	LYS A	77	160.137	-7.261	1.575	1.00	0.00
ATOM 1097	1HE	LYS A	77	162.423	-6.812	0.855	1.00	0.00
ATOM 1098	2HE	LYS A	77	162.107	-6.106	2.440	1.00	0.00
ATOM 1099	1HZ	LYS A	77	163.792	-8.411	1.738	1.00	0.00
ATOM 1100	2HZ	LYS A	77	163.103	-8.329	3.281	1.00	0.00
ATOM 1101	3HZ	LYS A	77	164.136	-7.099	2.751	1.00	0.00
ATOM 1102	N	LYS A	78	156.541	-5.511	4.313	1.00	0.00
ATOM 1103	CA	LYS A	78	155.127	-5.382	4.646	1.00	0.00
ATOM 1104	C	LYS A	78	154.606	-3.995	4.282	1.00	0.00
ATOM 1105	O	LYS A	78	153.800	-3.414	5.007	1.00	0.00
ATOM 1106	CB	LYS A	78	154.906	-5.649	6.136	1.00	0.00
ATOM 1107	CG	LYS A	78	155.398	-7.014	6.589	1.00	0.00
ATOM 1108	CD	LYS A	78	155.107	-7.251	8.062	1.00	0.00
ATOM 1109	CE	LYS A	78	153.901	-8.157	8.253	1.00	0.00
ATOM 1110	NZ	LYS A	78	153.055	-7.722	9.398	1.00	0.00
ATOM 1111	H	LYS A	78	157.119	-4.721	4.370	1.00	0.00
ATOM 1112	HA	LYS A	78	154.585	-6.119	4.073	1.00	0.00
ATOM 1113	1HB	LYS A	78	155.428	-4.895	6.706	1.00	0.00
ATOM 1114	2HB	LYS A	78	153.850	-5.582	6.349	1.00	0.00
ATOM 1115	1HG	LYS A	78	154.903	-7.776	6.006	1.00	0.00
ATOM 1116	2HG	LYS A	78	156.465	-7.072	6.428	1.00	0.00
ATOM 1117	1HD	LYS A	78	155.968	-7.715	8.519	1.00	0.00
ATOM 1118	2HD	LYS A	78	154.912	-6.302	8.539	1.00	0.00
ATOM 1119	1HE	LYS A	78	153.307	-8.140	7.352	1.00	0.00
ATOM 1120	2HE	LYS A	78	154.248	-9.164	8.434	1.00	0.00

ATOM 1121	1HZ	LYS A	78	153.621	-7.164	10.069	1.00	0.00
ATOM 1122	2HZ	LYS A	78	152.669	-8.552	9.894	1.00	0.00
ATOM 1123	3HZ	LYS A	78	152.265	-7.138	9.057	1.00	0.00
ATOM 1124	N	ALA A	79	155.073	-3.472	3.153	1.00	0.00
ATOM 1125	CA	ALA A	79	154.655	-2.153	2.692	1.00	0.00
ATOM 1126	C	ALA A	79	154.517	-2.120	1.174	1.00	0.00
ATOM 1127	O	ALA A	79	155.505	-1.978	0.454	1.00	0.00
ATOM 1128	CB	ALA A	79	155.643	-1.094	3.158	1.00	0.00
ATOM 1129	H	ALA A	79	155.715	-3.984	2.618	1.00	0.00
ATOM 1130	HA	ALA A	79	153.694	-1.934	3.136	1.00	0.00
ATOM 1131	1HB	ALA A	79	155.109	-0.193	3.418	1.00	0.00
ATOM 1132	2HB	ALA A	79	156.343	-0.882	2.363	1.00	0.00
ATOM 1133	3HB	ALA A	79	156.180	-1.458	4.022	1.00	0.00
ATOM 1134	N	LEU A	80	153.284	-2.253	0.695	1.00	0.00
ATOM 1135	CA	LEU A	80	153.016	-2.239	-0.738	1.00	0.00
ATOM 1136	C	LEU A	80	152.228	-0.993	-1.131	1.00	0.00
ATOM 1137	O	LEU A	80	151.021	-0.912	-0.900	1.00	0.00
ATOM 1138	CB	LEU A	80	152.243	-3.495	-1.146	1.00	0.00
ATOM 1139	CG	LEU A	80	151.860	-3.568	-2.625	1.00	0.00
ATOM 1140	CD1	LEU A	80	152.992	-4.173	-3.440	1.00	0.00
ATOM 1141	CD2	LEU A	80	150.582	-4.372	-2.804	1.00	0.00
ATOM 1142	H	LEU A	80	152.538	-2.364	1.320	1.00	0.00
ATOM 1143	HA	LEU A	80	153.965	-2.227	-1.254	1.00	0.00
ATOM 1144	1HB	LEU A	80	152.849	-4.357	-0.909	1.00	0.00
ATOM 1145	2HB	LEU A	80	151.338	-3.541	-0.561	1.00	0.00
ATOM 1146	HG	LEU A	80	151.683	-2.567	-2.994	1.00	0.00
ATOM 1147	1HD1	LEU A	80	153.928	-4.030	-2.920	1.00	0.00
ATOM 1148	2HD1	LEU A	80	153.039	-3.691	-4.404	1.00	0.00
ATOM 1149	3HD1	LEU A	80	152.813	-5.230	-3.574	1.00	0.00

ATOM 1150	1HD2	LEU	A	80	149.732	-3.705	-2.783	1.00	0.00
ATOM 1151	2HD2	LEU	A	80	150.494	-5.092	-2.005	1.00	0.00
ATOM 1152	3HD2	LEU	A	80	150.611	-4.887	-3.753	1.00	0.00
ATOM 1153	N	PHE	A	81	152.918	-0.024	-1.724	1.00	0.00
ATOM 1154	CA	PHE	A	81	152.282	1.217	-2.148	1.00	0.00
ATOM 1155	C	PHE	A	81	151.414	0.992	-3.380	1.00	0.00
ATOM 1156	O	PHE	A	81	151.765	0.211	-4.266	1.00	0.00
ATOM 1157	CB	PHE	A	81	153.338	2.283	-2.442	1.00	0.00
ATOM 1158	CG	PHE	A	81	154.088	2.738	-1.222	1.00	0.00
ATOM 1159	CD1	PHE	A	81	153.620	3.795	-0.458	1.00	0.00
ATOM 1160	CD2	PHE	A	81	155.262	2.108	-0.840	1.00	0.00
ATOM 1161	CE1	PHE	A	81	154.307	4.216	0.663	1.00	0.00
ATOM 1162	CE2	PHE	A	81	155.954	2.524	0.282	1.00	0.00
ATOM 1163	CZ	PHE	A	81	155.476	3.580	1.035	1.00	0.00
ATOM 1164	H	PHE	A	81	153.878	-0.147	-1.880	1.00	0.00
ATOM 1165	HA	PHE	A	81	151.654	1.560	-1.339	1.00	0.00
ATOM 1166	1HB	PHE	A	81	154.056	1.886	-3.143	1.00	0.00
ATOM 1167	2HB	PHE	A	81	152.857	3.146	-2.878	1.00	0.00
ATOM 1168	HD1	PHE	A	81	152.706	4.293	-0.747	1.00	0.00
ATOM 1169	HD2	PHE	A	81	155.637	1.284	-1.428	1.00	0.00
ATOM 1170	HE1	PHE	A	81	153.931	5.041	1.250	1.00	0.00
ATOM 1171	HE2	PHE	A	81	156.868	2.025	0.569	1.00	0.00
ATOM 1172	HZ	PHE	A	81	156.015	3.907	1.911	1.00	0.00
ATOM 1173	N	VAL	A	82	150.279	1.680	-3.431	1.00	0.00
ATOM 1174	CA	VAL	A	82	149.360	1.560	-4.554	1.00	0.00
ATOM 1175	C	VAL	A	82	148.457	2.783	-4.654	1.00	0.00
ATOM 1176	O	VAL	A	82	148.391	3.594	-3.730	1.00	0.00
ATOM 1177	CB	VAL	A	82	148.483	0.299	-4.436	1.00	0.00
ATOM 1178	CG1	VAL	A	82	149.314	-0.953	-4.669	1.00	0.00

ATOM 1179	CG2	VAL A	82	147.799	0.250	-3.079	1.00	0.00
ATOM 1180	H	VAL A	82	150.055	2.288	-2.697	1.00	0.00
ATOM 1181	HA	VAL A	82	149.945	1.481	-5.459	1.00	0.00
ATOM 1182	HB	VAL A	82	147.719	0.344	-5.198	1.00	0.00
ATOM 1183	1HG1	VAL A	82	149.883	-0.844	-5.579	1.00	0.00
ATOM 1184	2HG1	VAL A	82	148.659	-1.808	-4.754	1.00	0.00
ATOM 1185	3HG1	VAL A	82	149.988	-1.098	-3.838	1.00	0.00
ATOM 1186	1HG2	VAL A	82	147.759	-0.772	-2.732	1.00	0.00
ATOM 1187	2HG2	VAL A	82	146.796	0.639	-3.166	1.00	0.00
ATOM 1188	3HG2	VAL A	82	148.356	0.848	-2.373	1.00	0.00
ATOM 1189	N	LYS A	83	147.768	2.913	-5.780	1.00	0.00
ATOM 1190	CA	LYS A	83	146.872	4.040	-6.002	1.00	0.00
ATOM 1191	C	LYS A	83	145.593	3.895	-5.186	1.00	0.00
ATOM 1192	O	LYS A	83	144.905	2.877	-5.259	1.00	0.00
ATOM 1193	CB	LYS A	83	146.539	4.163	-7.488	1.00	0.00
ATOM 1194	CG	LYS A	83	147.683	4.726	-8.314	1.00	0.00
ATOM 1195	CD	LYS A	83	147.295	4.875	-9.778	1.00	0.00
ATOM 1196	CE	LYS A	83	148.101	3.940	-10.665	1.00	0.00
ATOM 1197	NZ	LYS A	83	147.243	3.255	-11.671	1.00	0.00
ATOM 1198	H	LYS A	83	147.865	2.234	-6.482	1.00	0.00
ATOM 1199	HA	LYS A	83	147.383	4.937	-5.685	1.00	0.00
ATOM 1200	1HB	LYS A	83	146.291	3.184	-7.873	1.00	0.00
ATOM 1201	2HB	LYS A	83	145.685	4.813	-7.604	1.00	0.00
ATOM 1202	1HG	LYS A	83	147.951	5.696	-7.923	1.00	0.00
ATOM 1203	2HG	LYS A	83	148.529	4.059	-8.239	1.00	0.00
ATOM 1204	1HD	LYS A	83	146.247	4.647	-9.890	1.00	0.00
ATOM 1205	2HD	LYS A	83	147.478	5.895	-10.085	1.00	0.00
ATOM 1206	1HE	LYS A	83	148.856	4.515	-11.181	1.00	0.00
ATOM 1207	2HE	LYS A	83	148.577	3.198	-10.043	1.00	0.00

ATOM 1208	1HZ	LYS A	83	146.567	2.625	-11.195	1.00	0.00
ATOM 1209	2HZ	LYS A	83	147.832	2.688	-12.316	1.00	0.00
ATOM 1210	3HZ	LYS A	83	146.716	3.956	-12.229	1.00	0.00
ATOM 1211	N	LEU A	84	145.285	4.925	-4.406	1.00	0.00
ATOM 1212	CA	LEU A	84	144.093	4.931	-3.566	1.00	0.00
ATOM 1213	C	LEU A	84	142.838	4.649	-4.389	1.00	0.00
ATOM 1214	O	LEU A	84	141.964	3.893	-3.964	1.00	0.00
ATOM 1215	CB	LEU A	84	143.962	6.281	-2.858	1.00	0.00
ATOM 1216	CG	LEU A	84	142.694	6.455	-2.019	1.00	0.00
ATOM 1217	CD1	LEU A	84	142.804	5.676	-0.718	1.00	0.00
ATOM 1218	CD2	LEU A	84	142.439	7.929	-1.741	1.00	0.00
ATOM 1219	H	LEU A	84	145.878	5.706	-4.394	1.00	0.00
ATOM 1220	HA	LEU A	84	144.206	4.156	-2.825	1.00	0.00
ATOM 1221	1HB	LEU A	84	144.818	6.409	-2.212	1.00	0.00
ATOM 1222	2HB	LEU A	84	143.980	7.058	-3.607	1.00	0.00
ATOM 1223	HG	LEU A	84	141.850	6.066	-2.570	1.00	0.00
ATOM 1224	1HD1	LEU A	84	141.898	5.803	-0.145	1.00	0.00
ATOM 1225	2HD1	LEU A	84	143.646	6.044	-0.149	1.00	0.00
ATOM 1226	3HD1	LEU A	84	142.948	4.628	-0.937	1.00	0.00
ATOM 1227	1HD2	LEU A	84	141.378	8.095	-1.627	1.00	0.00
ATOM 1228	2HD2	LEU A	84	142.809	8.520	-2.565	1.00	0.00
ATOM 1229	3HD2	LEU A	84	142.948	8.218	-0.834	1.00	0.00
ATOM 1230	N	LYS A	85	142.757	5.261	-5.565	1.00	0.00
ATOM 1231	CA	LYS A	85	141.609	5.075	-6.444	1.00	0.00
ATOM 1232	C	LYS A	85	141.506	3.625	-6.914	1.00	0.00
ATOM 1233	O	LYS A	85	140.431	3.163	-7.297	1.00	0.00
ATOM 1234	CB	LYS A	85	141.705	6.009	-7.652	1.00	0.00
ATOM 1235	CG	LYS A	85	142.906	5.733	-8.542	1.00	0.00
ATOM 1236	CD	LYS A	85	142.926	6.656	-9.750	1.00	0.00

ATOM 1237	CE	LYS A	85	144.334	6.833	-10.293	1.00	0.00
ATOM 1238	NZ	LYS A	85	145.199	7.606	-9.359	1.00	0.00
ATOM 1239	H	LYS A	85	143.485	5.853	-5.849	1.00	0.00
ATOM 1240	HA	LYS A	85	140.720	5.321	-5.882	1.00	0.00
ATOM 1241	1HB	LYS A	85	140.811	5.902	-8.247	1.00	0.00
ATOM 1242	2HB	LYS A	85	141.773	7.028	-7.299	1.00	0.00
ATOM 1243	1HG	LYS A	85	143.809	5.886	-7.970	1.00	0.00
ATOM 1244	2HG	LYS A	85	142.863	4.709	-8.882	1.00	0.00
ATOM 1245	1HD	LYS A	85	142.303	6.234	-10.524	1.00	0.00
ATOM 1246	2HD	LYS A	85	142.537	7.621	-9.459	1.00	0.00
ATOM 1247	1HE	LYS A	85	144.771	5.857	-10.450	1.00	0.00
ATOM 1248	2HE	LYS A	85	144.279	7.357	-11.237	1.00	0.00
ATOM 1249	1HZ	LYS A	85	146.163	7.216	-9.359	1.00	0.00
ATOM 1250	2HZ	LYS A	85	144.816	7.555	-8.394	1.00	0.00
ATOM 1251	3HZ	LYS A	85	145.238	8.604	-9.652	1.00	0.00
ATOM 1252	N	SER A	86	142.628	2.912	-6.880	1.00	0.00
ATOM 1253	CA	SER A	86	142.658	1.516	-7.302	1.00	0.00
ATOM 1254	C	SER A	86	142.572	0.581	-6.100	1.00	0.00
ATOM 1255	O	SER A	86	143.096	-0.532	-6.129	1.00	0.00
ATOM 1256	CB	SER A	86	143.933	1.229	-8.096	1.00	0.00
ATOM 1257	OG	SER A	86	143.882	1.831	-9.379	1.00	0.00
ATOM 1258	H	SER A	86	143.455	3.334	-6.565	1.00	0.00
ATOM 1259	HA	SER A	86	141.803	1.345	-7.938	1.00	0.00
ATOM 1260	1HB	SER A	86	144.785	1.623	-7.562	1.00	0.00
ATOM 1261	2HB	SER A	86	144.046	0.162	-8.218	1.00	0.00
ATOM 1262	HG	SER A	86	143.552	2.728	-9.298	1.00	0.00
ATOM 1263	N	CYS A	87	141.909	1.041	-5.043	1.00	0.00
ATOM 1264	CA	CYS A	87	141.754	0.245	-3.831	1.00	0.00
ATOM 1265	C	CYS A	87	140.287	-0.085	-3.581	1.00	0.00

ATOM 1266	O	CYS A	87	139.398	0.455	-4.240	1.00	0.00
ATOM 1267	CB	CYS A	87	142.334	0.991	-2.628	1.00	0.00
ATOM 1268	SG	CYS A	87	144.132	0.871	-2.480	1.00	0.00
ATOM 1269	H	CYS A	87	141.513	1.936	-5.080	1.00	0.00
ATOM 1270	HA	CYS A	87	142.300	-0.678	-3.968	1.00	0.00
ATOM 1271	1HB	CYS A	87	142.080	2.038	-2.707	1.00	0.00
ATOM 1272	2HB	CYS A	87	141.902	0.590	-1.722	1.00	0.00
ATOM 1273	HG	CYS A	87	144.490	1.762	-2.492	1.00	0.00
ATOM 1274	N	ARG A	88	140.038	-0.975	-2.625	1.00	0.00
ATOM 1275	CA	ARG A	88	138.677	-1.376	-2.290	1.00	0.00
ATOM 1276	C	ARG A	88	138.516	-1.547	-0.779	1.00	0.00
ATOM 1277	O	ARG A	88	139.430	-2.015	-0.100	1.00	0.00
ATOM 1278	CB	ARG A	88	138.316	-2.679	-3.006	1.00	0.00
ATOM 1279	CG	ARG A	88	136.957	-2.642	-3.687	1.00	0.00
ATOM 1280	CD	ARG A	88	136.152	-3.901	-3.401	1.00	0.00
ATOM 1281	NE	ARG A	88	136.210	-4.851	-4.511	1.00	0.00
ATOM 1282	CZ	ARG A	88	135.562	-4.684	-5.662	1.00	0.00
ATOM 1283	NH1	ARG A	88	134.809	-3.609	-5.860	1.00	0.00
ATOM 1284	NH2	ARG A	88	135.669	-5.596	-6.620	1.00	0.00
ATOM 1285	H	ARG A	88	140.789	-1.371	-2.134	1.00	0.00
ATOM 1286	HA	ARG A	88	138.012	-0.594	-2.626	1.00	0.00
ATOM 1287	1HB	ARG A	88	139.065	-2.882	-3.758	1.00	0.00
ATOM 1288	2HB	ARG A	88	138.314	-3.485	-2.287	1.00	0.00
ATOM 1289	1HG	ARG A	88	136.406	-1.788	-3.325	1.00	0.00
ATOM 1290	2HG	ARG A	88	137.102	-2.553	-4.754	1.00	0.00
ATOM 1291	1HD	ARG A	88	136.549	-4.374	-2.515	1.00	0.00
ATOM 1292	2HD	ARG A	88	135.123	-3.624	-3.230	1.00	0.00
ATOM 1293	HE	ARG A	88	136.758	-5.654	-4.392	1.00	0.00
ATOM 1294	1HH1	ARG A	88	134.726	-2.918	-5.142	1.00	0.00

ATOM 1295	2HH1	ARG	A	88	134.326	-3.490	-6.727	1.00	0.00
ATOM 1296	1HH2	ARG	A	88	136.235	-6.408	-6.476	1.00	0.00
ATOM 1297	2HH2	ARG	A	88	135.182	-5.472	-7.484	1.00	0.00
ATOM 1298	N	PRO	A	89	137.347	-1.171	-0.232	1.00	0.00
ATOM 1299	CA	PRO	A	89	137.076	-1.289	1.206	1.00	0.00
ATOM 1300	C	PRO	A	89	137.299	-2.706	1.721	1.00	0.00
ATOM 1301	O	PRO	A	89	136.768	-3.669	1.167	1.00	0.00
ATOM 1302	CB	PRO	A	89	135.598	-0.903	1.328	1.00	0.00
ATOM 1303	CG	PRO	A	89	135.324	-0.061	0.130	1.00	0.00
ATOM 1304	CD	PRO	A	89	136.200	-0.603	-0.964	1.00	0.00
ATOM 1305	HA	PRO	A	89	137.679	-0.600	1.779	1.00	0.00
ATOM 1306	1HB	PRO	A	89	134.990	-1.796	1.332	1.00	0.00
ATOM 1307	2HB	PRO	A	89	135.442	-0.350	2.242	1.00	0.00
ATOM 1308	1HG	PRO	A	89	134.284	-0.143	-0.145	1.00	0.00
ATOM 1309	2HG	PRO	A	89	135.578	0.967	0.338	1.00	0.00
ATOM 1310	1HD	PRO	A	89	135.679	-1.369	-1.520	1.00	0.00
ATOM 1311	2HD	PRO	A	89	136.518	0.192	-1.622	1.00	0.00
ATOM 1312	N	ASP	A	90	138.086	-2.827	2.785	1.00	0.00
ATOM 1313	CA	ASP	A	90	138.377	-4.128	3.376	1.00	0.00
ATOM 1314	C	ASP	A	90	137.565	-4.341	4.650	1.00	0.00
ATOM 1315	O	ASP	A	90	137.724	-3.612	5.629	1.00	0.00
ATOM 1316	CB	ASP	A	90	139.871	-4.249	3.684	1.00	0.00
ATOM 1317	CG	ASP	A	90	140.326	-5.692	3.778	1.00	0.00
ATOM 1318	OD1	ASP	A	90	141.391	-5.940	4.383	1.00	0.00
ATOM 1319	OD2	ASP	A	90	139.619	-6.574	3.247	1.00	0.00
ATOM 1320	H	ASP	A	90	138.479	-2.022	3.183	1.00	0.00
ATOM 1321	HA	ASP	A	90	138.104	-4.887	2.658	1.00	0.00
ATOM 1322	1HB	ASP	A	90	140.433	-3.763	2.900	1.00	0.00
ATOM 1323	2HB	ASP	A	90	140.078	-3.763	4.626	1.00	0.00

ATOM 1324	N	SER A	91	136.693	-5.344	4.629	1.00	0.00
ATOM 1325	CA	SER A	91	135.856	-5.653	5.782	1.00	0.00
ATOM 1326	C	SER A	91	136.446	-6.804	6.591	1.00	0.00
ATOM 1327	O	SER A	91	135.716	-7.595	7.188	1.00	0.00
ATOM 1328	CB	SER A	91	134.438	-6.007	5.329	1.00	0.00
ATOM 1329	OG	SER A	91	133.484	-5.649	6.314	1.00	0.00
ATOM 1330	H	SER A	91	136.611	-5.890	3.819	1.00	0.00
ATOM 1331	HA	SER A	91	135.816	-4.774	6.407	1.00	0.00
ATOM 1332	1HB	SER A	91	134.211	-5.476	4.417	1.00	0.00
ATOM 1333	2HB	SER A	91	134.375	-7.071	5.152	1.00	0.00
ATOM 1334	HG	SER A	91	133.237	-4.729	6.201	1.00	0.00
ATOM 1335	N	ARG A	92	137.772	-6.891	6.606	1.00	0.00
ATOM 1336	CA	ARG A	92	138.461	-7.945	7.342	1.00	0.00
ATOM 1337	C	ARG A	92	138.240	-7.794	8.843	1.00	0.00
ATOM 1338	O	ARG A	92	138.202	-8.781	9.578	1.00	0.00
ATOM 1339	CB	ARG A	92	139.957	-7.921	7.029	1.00	0.00
ATOM 1340	CG	ARG A	92	140.331	-8.699	5.777	1.00	0.00
ATOM 1341	CD	ARG A	92	141.095	-9.970	6.115	1.00	0.00
ATOM 1342	NE	ARG A	92	140.212	-11.130	6.208	1.00	0.00
ATOM 1343	CZ	ARG A	92	140.636	-12.390	6.142	1.00	0.00
ATOM 1344	NH1	ARG A	92	141.927	-12.656	5.982	1.00	0.00
ATOM 1345	NH2	ARG A	92	139.767	-13.388	6.238	1.00	0.00
ATOM 1346	H	ARG A	92	138.301	-6.231	6.111	1.00	0.00
ATOM 1347	HA	ARG A	92	138.051	-8.893	7.024	1.00	0.00
ATOM 1348	1HB	ARG A	92	140.268	-6.895	6.895	1.00	0.00
ATOM 1349	2HB	ARG A	92	140.495	-8.343	7.864	1.00	0.00
ATOM 1350	1HG	ARG A	92	139.428	-8.964	5.248	1.00	0.00
ATOM 1351	2HG	ARG A	92	140.949	-8.075	5.148	1.00	0.00
ATOM 1352	1HD	ARG A	92	141.829	-10.149	5.343	1.00	0.00

ATOM 1353	2HD	ARG	A	92	141.596	-9.832	7.062	1.00	0.00
ATOM 1354	HE	ARG	A	92	139.254	-10.962	6.327	1.00	0.00
ATOM 1355	1HH1	ARG	A	92	142.588	-11.910	5.910	1.00	0.00
ATOM 1356	2HH1	ARG	A	92	142.238	-13.606	5.934	1.00	0.00
ATOM 1357	1HH2	ARG	A	92	138.794	-13.193	6.359	1.00	0.00
ATOM 1358	2HH2	ARG	A	92	140.085	-14.335	6.188	1.00	0.00
ATOM 1359	N	PHE	A	93	138.095	-6.552	9.292	1.00	0.00
ATOM 1360	CA	PHE	A	93	137.878	-6.270	10.707	1.00	0.00
ATOM 1361	C	PHE	A	93	136.754	-5.258	10.894	1.00	0.00
ATOM 1362	O	PHE	A	93	136.768	-4.466	11.837	1.00	0.00
ATOM 1363	CB	PHE	A	93	139.165	-5.746	11.347	1.00	0.00
ATOM 1364	CG	PHE	A	93	140.198	-6.812	11.578	1.00	0.00
ATOM 1365	CD1	PHE	A	93	140.387	-7.349	12.840	1.00	0.00
ATOM 1366	CD2	PHE	A	93	140.980	-7.275	10.532	1.00	0.00
ATOM 1367	CE1	PHE	A	93	141.338	-8.329	13.057	1.00	0.00
ATOM 1368	CE2	PHE	A	93	141.932	-8.255	10.741	1.00	0.00
ATOM 1369	CZ	PHE	A	93	142.111	-8.783	12.005	1.00	0.00
ATOM 1370	H	PHE	A	93	138.135	-5.807	8.657	1.00	0.00
ATOM 1371	HA	PHE	A	93	137.598	-7.195	11.189	1.00	0.00
ATOM 1372	1HB	PHE	A	93	139.599	-4.997	10.703	1.00	0.00
ATOM 1373	2HB	PHE	A	93	138.927	-5.299	12.301	1.00	0.00
ATOM 1374	HD1	PHE	A	93	139.783	-6.996	13.663	1.00	0.00
ATOM 1375	HD2	PHE	A	93	140.841	-6.863	9.543	1.00	0.00
ATOM 1376	HE1	PHE	A	93	141.476	-8.739	14.046	1.00	0.00
ATOM 1377	HE2	PHE	A	93	142.535	-8.607	9.918	1.00	0.00
ATOM 1378	HZ	PHE	A	93	142.854	-9.548	12.171	1.00	0.00
ATOM 1379	N	ALA	A	94	135.781	-5.288	9.989	1.00	0.00
ATOM 1380	CA	ALA	A	94	134.648	-4.371	10.055	1.00	0.00
ATOM 1381	C	ALA	A	94	133.700	-4.751	11.186	1.00	0.00

ATOM 1382	O	ALA A	94	133.394	-5.927	11.385	1.00	0.00
ATOM 1383	CB	ALA A	94	133.907	-4.352	8.726	1.00	0.00
ATOM 1384	H	ALA A	94	135.825	-5.940	9.260	1.00	0.00
ATOM 1385	HA	ALA A	94	135.033	-3.379	10.239	1.00	0.00
ATOM 1386	1HB	ALA A	94	133.156	-3.578	8.744	1.00	0.00
ATOM 1387	2HB	ALA A	94	133.435	-5.310	8.564	1.00	0.00
ATOM 1388	3HB	ALA A	94	134.607	-4.157	7.927	1.00	0.00
ATOM 1389	N	SER A	95	133.237	-3.748	11.925	1.00	0.00
ATOM 1390	CA	SER A	95	132.321	-3.978	13.038	1.00	0.00
ATOM 1391	C	SER A	95	130.877	-4.031	12.551	1.00	0.00
ATOM 1392	O	SER A	95	130.505	-3.343	11.600	1.00	0.00
ATOM 1393	CB	SER A	95	132.478	-2.878	14.088	1.00	0.00
ATOM 1394	OG	SER A	95	133.833	-2.484	14.216	1.00	0.00
ATOM 1395	H	SER A	95	133.515	-2.833	11.717	1.00	0.00
ATOM 1396	HA	SER A	95	132.573	-4.928	13.483	1.00	0.00
ATOM 1397	1HB	SER A	95	131.892	-2.019	13.797	1.00	0.00
ATOM 1398	2HB	SER A	95	132.129	-3.244	15.043	1.00	0.00
ATOM 1399	HG	SER A	95	134.359	-3.233	14.506	1.00	0.00
ATOM 1400	N	LEU A	96	130.066	-4.852	13.209	1.00	0.00
ATOM 1401	CA	LEU A	96	128.660	-4.995	12.845	1.00	0.00
ATOM 1402	C	LEU A	96	127.765	-4.247	13.824	1.00	0.00
ATOM 1403	O	LEU A	96	127.065	-3.306	13.451	1.00	0.00
ATOM 1404	CB	LEU A	96	128.270	-6.474	12.803	1.00	0.00
ATOM 1405	CG	LEU A	96	126.904	-6.765	12.181	1.00	0.00
ATOM 1406	CD1	LEU A	96	127.029	-6.940	10.676	1.00	0.00
ATOM 1407	CD2	LEU A	96	126.283	-8.001	12.814	1.00	0.00
ATOM 1408	H	LEU A	96	130.420	-5.375	13.959	1.00	0.00
ATOM 1409	HA	LEU A	96	128.529	-4.570	11.865	1.00	0.00
ATOM 1410	1HB	LEU A	96	129.021	-7.007	12.238	1.00	0.00

ATOM 1411	2HB	LEU A	96	128.267	-6.852	13.814	1.00	0.00
ATOM 1412	HG	LEU A	96	126.245	-5.928	12.365	1.00	0.00
ATOM 1413	1HD1	LEU A	96	127.596	-7.834	10.463	1.00	0.00
ATOM 1414	2HD1	LEU A	96	127.536	-6.085	10.254	1.00	0.00
ATOM 1415	3HD1	LEU A	96	126.045	-7.026	10.239	1.00	0.00
ATOM 1416	1HD2	LEU A	96	126.517	-8.868	12.214	1.00	0.00
ATOM 1417	2HD2	LEU A	96	125.211	-7.879	12.867	1.00	0.00
ATOM 1418	3HD2	LEU A	96	126.681	-8.133	13.809	1.00	0.00
ATOM 1419	N	GLN A	97	127.795	-4.677	15.078	1.00	0.00
ATOM 1420	CA	GLN A	97	126.988	-4.054	16.120	1.00	0.00
ATOM 1421	C	GLN A	97	125.500	-4.158	15.795	1.00	0.00
ATOM 1422	O	GLN A	97	124.887	-3.195	15.336	1.00	0.00
ATOM 1423	CB	GLN A	97	127.383	-2.585	16.292	1.00	0.00
ATOM 1424	CG	GLN A	97	128.660	-2.387	17.092	1.00	0.00
ATOM 1425	CD	GLN A	97	128.551	-2.923	18.506	1.00	0.00
ATOM 1426	OE1	GLN A	97	127.475	-3.328	18.947	1.00	0.00
ATOM 1427	NE2	GLN A	97	129.668	-2.927	19.224	1.00	0.00
ATOM 1428	H	GLN A	97	128.375	-5.431	15.307	1.00	0.00
ATOM 1429	HA	GLN A	97	127.180	-4.578	17.045	1.00	0.00
ATOM 1430	1HB	GLN A	97	127.523	-2.147	15.316	1.00	0.00
ATOM 1431	2HB	GLN A	97	126.583	-2.066	16.799	1.00	0.00
ATOM 1432	1HG	GLN A	97	129.467	-2.901	16.591	1.00	0.00
ATOM 1433	2HG	GLN A	97	128.881	-1.331	17.137	1.00	0.00
ATOM 1434	1HE2	GLN A	97	130.488	-2.589	18.808	1.00	0.00
ATOM 1435	2HE2	GLN A	97	129.626	-3.268	20.142	1.00	0.00
ATOM 1436	N	PRO A	98	124.898	-5.338	16.027	1.00	0.00
ATOM 1437	CA	PRO A	98	123.475	-5.564	15.756	1.00	0.00
ATOM 1438	C	PRO A	98	122.587	-4.511	16.408	1.00	0.00
ATOM 1439	O	PRO A	98	122.406	-4.502	17.625	1.00	0.00

ATOM 1440	CB	PRO A	98	123.209	-6.941	16.370	1.00	0.00
ATOM 1441	CG	PRO A	98	124.533	-7.622	16.362	1.00	0.00
ATOM 1442	CD	PRO A	98	125.556	-6.540	16.573	1.00	0.00
ATOM 1443	HA	PRO A	98	123.275	-5.595	14.695	1.00	0.00
ATOM 1444	1HB	PRO A	98	122.830	-6.823	17.374	1.00	0.00
ATOM 1445	2HB	PRO A	98	122.489	-7.474	15.767	1.00	0.00
ATOM 1446	1HG	PRO A	98	124.581	-8.344	17.163	1.00	0.00
ATOM 1447	2HG	PRO A	98	124.692	-8.107	15.410	1.00	0.00
ATOM 1448	1HD	PRO A	98	125.767	-6.421	17.625	1.00	0.00
ATOM 1449	2HD	PRO A	98	126.462	-6.764	16.028	1.00	0.00
ATOM 1450	N	SER A	99	122.033	-3.622	15.588	1.00	0.00
ATOM 1451	CA	SER A	99	121.163	-2.563	16.086	1.00	0.00
ATOM 1452	C	SER A	99	120.011	-2.306	15.120	1.00	0.00
ATOM 1453	O	SER A	99	118.848	-2.269	15.521	1.00	0.00
ATOM 1454	CB	SER A	99	121.962	-1.275	16.299	1.00	0.00
ATOM 1455	OG	SER A	99	122.453	-1.192	17.625	1.00	0.00
ATOM 1456	H	SER A	99	122.215	-3.680	14.627	1.00	0.00
ATOM 1457	HA	SER A	99	120.757	-2.884	17.034	1.00	0.00
ATOM 1458	1HB	SER A	99	122.799	-1.257	15.617	1.00	0.00
ATOM 1459	2HB	SER A	99	121.325	-0.423	16.110	1.00	0.00
ATOM 1460	HG	SER A	99	123.072	-0.463	17.693	1.00	0.00
ATOM 1461	N	GLY A	100	120.343	-2.127	13.845	1.00	0.00
ATOM 1462	CA	GLY A	100	119.326	-1.877	12.843	1.00	0.00
ATOM 1463	C	GLY A	100	119.250	-0.413	12.447	1.00	0.00
ATOM 1464	O	GLY A	100	120.253	0.297	12.497	1.00	0.00
ATOM 1465	H	GLY A	100	121.287	-2.168	13.584	1.00	0.00
ATOM 1466	1HA	GLY A	100	119.548	-2.464	11.965	1.00	0.00
ATOM 1467	2HA	GLY A	100	118.367	-2.182	13.234	1.00	0.00
ATOM 1468	N	PRO A	101	118.061	0.071	12.047	1.00	0.00

ATOM 1469	CA	PRO A 101	117.873	1.468	11.642	1.00	0.00
ATOM 1470	C	PRO A 101	117.984	2.431	12.820	1.00	0.00
ATOM 1471	O	PRO A 101	118.008	2.012	13.977	1.00	0.00
ATOM 1472	CB	PRO A 101	116.454	1.486	11.070	1.00	0.00
ATOM 1473	CG	PRO A 101	115.761	0.350	11.740	1.00	0.00
ATOM 1474	CD	PRO A 101	116.810	-0.705	11.956	1.00	0.00
ATOM 1475	HA	PRO A 101	118.577	1.756	10.876	1.00	0.00
ATOM 1476	1HB	PRO A 101	115.982	2.430	11.300	1.00	0.00
ATOM 1477	2HB	PRO A 101	116.492	1.347	10.000	1.00	0.00
ATOM 1478	1HG	PRO A 101	115.355	0.675	12.686	1.00	0.00
ATOM 1479	2HG	PRO A 101	114.975	-0.028	11.103	1.00	0.00
ATOM 1480	1HD	PRO A 101	116.621	-1.241	12.874	1.00	0.00
ATOM 1481	2HD	PRO A 101	116.839	-1.386	11.119	1.00	0.00
ATOM 1482	N	SER A 102	118.051	3.723	12.516	1.00	0.00
ATOM 1483	CA	SER A 102	118.160	4.747	13.549	1.00	0.00
ATOM 1484	C	SER A 102	116.884	5.579	13.625	1.00	0.00
ATOM 1485	O	SER A 102	116.301	5.744	14.697	1.00	0.00
ATOM 1486	CB	SER A 102	119.359	5.655	13.274	1.00	0.00
ATOM 1487	OG	SER A 102	120.529	5.162	13.906	1.00	0.00
ATOM 1488	H	SER A 102	118.028	3.994	11.574	1.00	0.00
ATOM 1489	HA	SER A 102	118.307	4.248	14.496	1.00	0.00
ATOM 1490	1HB	SER A 102	119.535	5.703	12.209	1.00	0.00
ATOM 1491	2HB	SER A 102	119.152	6.646	13.648	1.00	0.00
ATOM 1492	HG	SER A 102	120.966	5.877	14.372	1.00	0.00
ATOM 1493	N	SER A 103	116.457	6.103	12.480	1.00	0.00
ATOM 1494	CA	SER A 103	115.250	6.919	12.416	1.00	0.00
ATOM 1495	C	SER A 103	114.308	6.412	11.330	1.00	0.00
ATOM 1496	O	SER A 103	113.126	6.175	11.581	1.00	0.00
ATOM 1497	CB	SER A 103	115.612	8.382	12.152	1.00	0.00

ATOM 1498	OG	SER A 103	114.760	9.256	12.872	1.00	0.00
ATOM 1499	H	SER A 103	116.965	5.936	11.659	1.00	0.00
ATOM 1500	HA	SER A 103	114.751	6.848	13.371	1.00	0.00
ATOM 1501	1HB	SER A 103	116.631	8.559	12.459	1.00	0.00
ATOM 1502	2HB	SER A 103	115.513	8.589	11.096	1.00	0.00
ATOM 1503	HG	SER A 103	114.880	10.154	12.553	1.00	0.00
ATOM 1504	N	GLY A 104	114.838	6.248	10.122	1.00	0.00
ATOM 1505	CA	GLY A 104	114.030	5.770	9.015	1.00	0.00
ATOM 1506	C	GLY A 104	114.428	4.377	8.566	1.00	0.00
ATOM 1507	O	GLY A 104	113.527	3.529	8.397	1.00	0.00
ATOM 1508	OXT	GLY A 104	115.639	4.137	8.382	1.00	0.00
ATOM 1509	H	GLY A 104	115.786	6.453	9.982	1.00	0.00
ATOM 1510	1HA	GLY A 104	112.994	5.756	9.319	1.00	0.00
ATOM 1511	2HA	GLY A 104	114.141	6.450	8.183	1.00	0.00
TER 1512		GLY A 104					
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ATOM 1	N	GLY A	1	114.316	12.945	11.802	1.00	0.00
ATOM 2	CA	GLY A	1	115.335	13.468	10.850	1.00	0.00
ATOM 3	C	GLY A	1	116.588	12.617	10.816	1.00	0.00
ATOM 4	O	GLY A	1	117.700	13.130	10.948	1.00	0.00
ATOM 5	1H	GLY A	1	114.365	13.468	12.701	1.00	0.00
ATOM 6	2H	GLY A	1	114.488	11.937	11.991	1.00	0.00
ATOM 7	3H	GLY A	1	113.363	13.054	11.401	1.00	0.00
ATOM 8	1HA	GLY A	1	114.905	13.496	9.860	1.00	0.00
ATOM 9	2HA	GLY A	1	115.603	14.472	11.144	1.00	0.00
ATOM 10	N	SER A	2	116.410	11.312	10.639	1.00	0.00

ATOM 11	CA	SER A	2	117.536	10.386	10.588	1.00	0.00
ATOM 12	C	SER A	2	118.226	10.442	9.227	1.00	0.00
ATOM 13	O	SER A	2	117.567	10.471	8.188	1.00	0.00
ATOM 14	CB	SER A	2	117.064	8.960	10.874	1.00	0.00
ATOM 15	OG	SER A	2	116.474	8.866	12.159	1.00	0.00
ATOM 16	H	SER A	2	115.500	10.962	10.539	1.00	0.00
ATOM 17	HA	SER A	2	118.243	10.682	11.348	1.00	0.00
ATOM 18	1HB	SER A	2	116.334	8.668	10.134	1.00	0.00
ATOM 19	2HB	SER A	2	117.910	8.289	10.830	1.00	0.00
ATOM 20	HG	SER A	2	116.087	7.995	12.271	1.00	0.00
ATOM 21	N	SER A	3	119.554	10.458	9.243	1.00	0.00
ATOM 22	CA	SER A	3	120.332	10.510	8.011	1.00	0.00
ATOM 23	C	SER A	3	120.013	11.775	7.220	1.00	0.00
ATOM 24	O	SER A	3	118.997	12.427	7.457	1.00	0.00
ATOM 25	CB	SER A	3	120.053	9.274	7.154	1.00	0.00
ATOM 26	OG	SER A	3	121.235	8.811	6.525	1.00	0.00
ATOM 27	H	SER A	3	120.022	10.433	10.103	1.00	0.00
ATOM 28	HA	SER A	3	121.378	10.522	8.280	1.00	0.00
ATOM 29	1HB	SER A	3	119.660	8.486	7.779	1.00	0.00
ATOM 30	2HB	SER A	3	119.328	9.524	6.392	1.00	0.00
ATOM 31	HG	SER A	3	121.720	9.557	6.164	1.00	0.00
ATOM 32	N	GLY A	4	120.889	12.115	6.281	1.00	0.00
ATOM 33	CA	GLY A	4	120.684	13.301	5.469	1.00	0.00
ATOM 34	C	GLY A	4	120.052	12.984	4.129	1.00	0.00
ATOM 35	O	GLY A	4	119.110	13.655	3.705	1.00	0.00
ATOM 36	H	GLY A	4	121.683	11.557	6.137	1.00	0.00
ATOM 37	1HA	GLY A	4	120.041	13.983	6.006	1.00	0.00
ATOM 38	2HA	GLY A	4	121.637	13.778	5.301	1.00	0.00
ATOM 39	N	SER A	5	120.569	11.960	3.460	1.00	0.00

ATOM 40	CA	SER A	5	120.050	11.555	2.158	1.00	0.00
ATOM 41	C	SER A	5	120.184	12.684	1.144	1.00	0.00
ATOM 42	O	SER A	5	119.259	13.471	0.949	1.00	0.00
ATOM 43	CB	SER A	5	118.584	11.134	2.280	1.00	0.00
ATOM 44	OG	SER A	5	118.066	10.720	1.027	1.00	0.00
ATOM 45	H	SER A	5	121.319	11.463	3.849	1.00	0.00
ATOM 46	HA	SER A	5	120.630	10.710	1.819	1.00	0.00
ATOM 47	1HB	SER A	5	118.503	10.314	2.977	1.00	0.00
ATOM 48	2HB	SER A	5	118.001	11.970	2.639	1.00	0.00
ATOM 49	HG	SER A	5	118.141	9.766	0.950	1.00	0.00
ATOM 50	N	SER A	6	121.344	12.757	0.497	1.00	0.00
ATOM 51	CA	SER A	6	121.600	13.791	-0.499	1.00	0.00
ATOM 52	C	SER A	6	122.490	13.259	-1.618	1.00	0.00
ATOM 53	O	SER A	6	122.136	13.333	-2.794	1.00	0.00
ATOM 54	CB	SER A	6	122.256	15.008	0.156	1.00	0.00
ATOM 55	OG	SER A	6	123.481	14.656	0.775	1.00	0.00
ATOM 56	H	SER A	6	122.043	12.101	0.695	1.00	0.00
ATOM 57	HA	SER A	6	120.651	14.088	-0.920	1.00	0.00
ATOM 58	1HB	SER A	6	122.451	15.757	-0.597	1.00	0.00
ATOM 59	2HB	SER A	6	121.592	15.414	0.903	1.00	0.00
ATOM 60	HG	SER A	6	123.749	15.356	1.375	1.00	0.00
ATOM 61	N	GLY A	7	123.647	12.724	-1.242	1.00	0.00
ATOM 62	CA	GLY A	7	124.570	12.187	-2.226	1.00	0.00
ATOM 63	C	GLY A	7	124.390	10.697	-2.437	1.00	0.00
ATOM 64	O	GLY A	7	124.507	9.911	-1.497	1.00	0.00
ATOM 65	H	GLY A	7	123.876	12.693	-0.291	1.00	0.00
ATOM 66	1HA	GLY A	7	124.412	12.695	-3.166	1.00	0.00
ATOM 67	2HA	GLY A	7	125.580	12.374	-1.894	1.00	0.00
ATOM 68	N	LEU A	8	124.104	10.307	-3.675	1.00	0.00

ATOM 69	CA	LEU A	8	123.908	8.901	-4.008	1.00	0.00
ATOM 70	C	LEU A	8	125.039	8.389	-4.894	1.00	0.00
ATOM 71	O	LEU A	8	124.817	7.581	-5.796	1.00	0.00
ATOM 72	CB	LEU A	8	122.563	8.706	-4.712	1.00	0.00
ATOM 73	CG	LEU A	8	121.376	9.401	-4.044	1.00	0.00
ATOM 74	CD1	LEU A	8	120.361	9.844	-5.086	1.00	0.00
ATOM 75	CD2	LEU A	8	120.727	8.480	-3.022	1.00	0.00
ATOM 76	H	LEU A	8	124.024	10.981	-4.382	1.00	0.00
ATOM 77	HA	LEU A	8	123.906	8.339	-3.086	1.00	0.00
ATOM 78	1HB	LEU A	8	122.652	9.080	-5.721	1.00	0.00
ATOM 79	2HB	LEU A	8	122.354	7.647	-4.755	1.00	0.00
ATOM 80	HG	LEU A	8	121.727	10.282	-3.526	1.00	0.00
ATOM 81	1HD1	LEU A	8	120.435	9.206	-5.954	1.00	0.00
ATOM 82	2HD1	LEU A	8	120.560	10.866	-5.372	1.00	0.00
ATOM 83	3HD1	LEU A	8	119.366	9.773	-4.672	1.00	0.00
ATOM 84	1HD2	LEU A	8	120.372	9.063	-2.185	1.00	0.00
ATOM 85	2HD2	LEU A	8	121.452	7.758	-2.676	1.00	0.00
ATOM 86	3HD2	LEU A	8	119.895	7.964	-3.479	1.00	0.00
ATOM 87	N	ALA A	9	126.252	8.865	-4.630	1.00	0.00
ATOM 88	CA	ALA A	9	127.418	8.456	-5.403	1.00	0.00
ATOM 89	C	ALA A	9	128.707	8.716	-4.631	1.00	0.00
ATOM 90	O	ALA A	9	129.394	9.710	-4.866	1.00	0.00
ATOM 91	CB	ALA A	9	127.446	9.182	-6.740	1.00	0.00
ATOM 92	H	ALA A	9	126.364	9.507	-3.899	1.00	0.00
ATOM 93	HA	ALA A	9	127.334	7.396	-5.598	1.00	0.00
ATOM 94	1HB	ALA A	9	128.471	9.348	-7.038	1.00	0.00
ATOM 95	2HB	ALA A	9	126.940	10.132	-6.644	1.00	0.00
ATOM 96	3HB	ALA A	9	126.947	8.582	-7.486	1.00	0.00
ATOM 97	N	MET A	10	129.030	7.815	-3.707	1.00	0.00

ATOM 98	CA	MET A	10	130.237	7.947	-2.899	1.00	0.00
ATOM 99	C	MET A	10	130.223	9.252	-2.106	1.00	0.00
ATOM 100	O	MET A	10	130.923	10.204	-2.449	1.00	0.00
ATOM 101	CB	MET A	10	131.480	7.891	-3.790	1.00	0.00
ATOM 102	CG	MET A	10	131.435	6.782	-4.829	1.00	0.00
ATOM 103	SD	MET A	10	130.940	7.377	-6.458	1.00	0.00
ATOM 104	CE	MET A	10	132.189	6.616	-7.491	1.00	0.00
ATOM 105	H	MET A	10	128.441	7.044	-3.566	1.00	0.00
ATOM 106	HA	MET A	10	130.263	7.118	-2.207	1.00	0.00
ATOM 107	1HB	MET A	10	131.583	8.834	-4.305	1.00	0.00
ATOM 108	2HB	MET A	10	132.348	7.735	-3.166	1.00	0.00
ATOM 109	1HG	MET A	10	132.417	6.341	-4.907	1.00	0.00
ATOM 110	2HG	MET A	10	130.730	6.032	-4.504	1.00	0.00
ATOM 111	1HE	MET A	10	132.930	7.353	-7.762	1.00	0.00
ATOM 112	2HE	MET A	10	131.728	6.224	-8.385	1.00	0.00
ATOM 113	3HE	MET A	10	132.664	5.812	-6.948	1.00	0.00
ATOM 114	N	PRO A	11	129.419	9.313	-1.030	1.00	0.00
ATOM 115	CA	PRO A	11	129.317	10.509	-0.189	1.00	0.00
ATOM 116	C	PRO A	11	130.665	10.921	0.403	1.00	0.00
ATOM 117	O	PRO A	11	131.039	12.093	0.349	1.00	0.00
ATOM 118	CB	PRO A	11	128.344	10.104	0.923	1.00	0.00
ATOM 119	CG	PRO A	11	127.610	8.919	0.393	1.00	0.00
ATOM 120	CD	PRO A	11	128.551	8.225	-0.552	1.00	0.00
ATOM 121	HA	PRO A	11	128.906	11.341	-0.742	1.00	0.00
ATOM 122	1HB	PRO A	11	128.896	9.859	1.817	1.00	0.00
ATOM 123	2HB	PRO A	11	127.669	10.922	1.127	1.00	0.00
ATOM 124	1HG	PRO A	11	127.346	8.260	1.205	1.00	0.00
ATOM 125	2HG	PRO A	11	126.723	9.241	-0.132	1.00	0.00
ATOM 126	1HD	PRO A	11	129.124	7.473	-0.030	1.00	0.00

ATOM 127	2HD	PRO A	11	128.004	7.781	-1.371	1.00	0.00
ATOM 128	N	PRO A	12	131.421	9.964	0.975	1.00	0.00
ATOM 129	CA	PRO A	12	132.731	10.252	1.568	1.00	0.00
ATOM 130	C	PRO A	12	133.680	10.909	0.572	1.00	0.00
ATOM 131	O	PRO A	12	134.645	11.568	0.959	1.00	0.00
ATOM 132	CB	PRO A	12	133.259	8.873	1.974	1.00	0.00
ATOM 133	CG	PRO A	12	132.046	8.020	2.103	1.00	0.00
ATOM 134	CD	PRO A	12	131.069	8.536	1.086	1.00	0.00
ATOM 135	HA	PRO A	12	132.641	10.878	2.443	1.00	0.00
ATOM 136	1HB	PRO A	12	133.925	8.500	1.210	1.00	0.00
ATOM 137	2HB	PRO A	12	133.788	8.949	2.912	1.00	0.00
ATOM 138	1HG	PRO A	12	132.296	6.989	1.894	1.00	0.00
ATOM 139	2HG	PRO A	12	131.635	8.112	3.098	1.00	0.00
ATOM 140	1HD	PRO A	12	131.204	8.030	0.141	1.00	0.00
ATOM 141	2HD	PRO A	12	130.058	8.413	1.440	1.00	0.00
ATOM 142	N	GLY A	13	133.399	10.723	-0.715	1.00	0.00
ATOM 143	CA	GLY A	13	134.237	11.303	-1.749	1.00	0.00
ATOM 144	C	GLY A	13	134.875	10.250	-2.634	1.00	0.00
ATOM 145	O	GLY A	13	135.166	10.506	-3.802	1.00	0.00
ATOM 146	H	GLY A	13	132.617	10.187	-0.965	1.00	0.00
ATOM 147	1HA	GLY A	13	133.634	11.955	-2.362	1.00	0.00
ATOM 148	2HA	GLY A	13	135.017	11.885	-1.281	1.00	0.00
ATOM 149	N	ASN A	14	135.094	9.064	-2.076	1.00	0.00
ATOM 150	CA	ASN A	14	135.701	7.967	-2.821	1.00	0.00
ATOM 151	C	ASN A	14	134.738	6.790	-2.940	1.00	0.00
ATOM 152	O	ASN A	14	134.497	6.279	-4.033	1.00	0.00
ATOM 153	CB	ASN A	14	136.994	7.516	-2.142	1.00	0.00
ATOM 154	CG	ASN A	14	138.155	8.448	-2.429	1.00	0.00
ATOM 155	OD1	ASN A	14	138.479	8.716	-3.586	1.00	0.00

ATOM 156	ND2	ASN A	14	138.789	8.947	-1.375	1.00	0.00
ATOM 157	H	ASN A	14	134.839	8.921	-1.140	1.00	0.00
ATOM 158	HA	ASN A	14	135.933	8.328	-3.812	1.00	0.00
ATOM 159	1HB	ASN A	14	136.840	7.483	-1.073	1.00	0.00
ATOM 160	2HB	ASN A	14	137.254	6.528	-2.494	1.00	0.00
ATOM 161	1HD2	ASN A	14	138.476	8.690	-0.482	1.00	0.00
ATOM 162	2HD2	ASN A	14	139.542	9.554	-1.532	1.00	0.00
ATOM 163	N	SER A	15	134.190	6.364	-1.805	1.00	0.00
ATOM 164	CA	SER A	15	133.254	5.248	-1.782	1.00	0.00
ATOM 165	C	SER A	15	132.700	5.032	-0.376	1.00	0.00
ATOM 166	O	SER A	15	131.490	5.082	-0.160	1.00	0.00
ATOM 167	CB	SER A	15	133.937	3.971	-2.275	1.00	0.00
ATOM 168	OG	SER A	15	133.013	2.899	-2.362	1.00	0.00
ATOM 169	H	SER A	15	134.422	6.812	-0.966	1.00	0.00
ATOM 170	HA	SER A	15	132.436	5.487	-2.445	1.00	0.00
ATOM 171	1HB	SER A	15	134.358	4.145	-3.254	1.00	0.00
ATOM 172	2HB	SER A	15	134.723	3.698	-1.588	1.00	0.00
ATOM 173	HG	SER A	15	133.116	2.455	-3.207	1.00	0.00
ATOM 174	N	HIS A	16	133.596	4.791	0.576	1.00	0.00
ATOM 175	CA	HIS A	16	133.197	4.567	1.960	1.00	0.00
ATOM 176	C	HIS A	16	134.022	5.432	2.909	1.00	0.00
ATOM 177	O	HIS A	16	133.481	6.066	3.815	1.00	0.00
ATOM 178	CB	HIS A	16	133.358	3.091	2.327	1.00	0.00
ATOM 179	CG	HIS A	16	132.209	2.238	1.892	1.00	0.00
ATOM 180	ND1	HIS A	16	131.498	1.433	2.757	1.00	0.00
ATOM 181	CD2	HIS A	16	131.644	2.066	0.673	1.00	0.00
ATOM 182	CE1	HIS A	16	130.548	0.802	2.089	1.00	0.00
ATOM 183	NE2	HIS A	16	130.615	1.169	0.824	1.00	0.00
ATOM 184	H	HIS A	16	134.547	4.763	0.342	1.00	0.00

ATOM 185	HA	HIS A	16	132.158	4.842	2.055	1.00	0.00
ATOM 186	1HB	HIS A	16	134.253	2.706	1.861	1.00	0.00
ATOM 187	2HB	HIS A	16	133.452	3.002	3.400	1.00	0.00
ATOM 188	HD1	HIS A	16	131.666	1.337	3.718	1.00	0.00
ATOM 189	HD2	HIS A	16	131.948	2.544	-0.247	1.00	0.00
ATOM 190	HE1	HIS A	16	129.836	0.106	2.509	1.00	0.00
ATOM 191	HE2	HIS A	16	129.972	0.918	0.128	1.00	0.00
ATOM 192	N	GLY A	17	135.334	5.452	2.696	1.00	0.00
ATOM 193	CA	GLY A	17	136.211	6.241	3.540	1.00	0.00
ATOM 194	C	GLY A	17	137.638	5.732	3.528	1.00	0.00
ATOM 195	O	GLY A	17	138.205	5.426	4.577	1.00	0.00
ATOM 196	H	GLY A	17	135.708	4.926	1.958	1.00	0.00
ATOM 197	1HA	GLY A	17	136.202	7.263	3.194	1.00	0.00
ATOM 198	2HA	GLY A	17	135.839	6.211	4.553	1.00	0.00
ATOM 199	N	LEU A	18	138.222	5.640	2.337	1.00	0.00
ATOM 200	CA	LEU A	18	139.592	5.164	2.192	1.00	0.00
ATOM 201	C	LEU A	18	140.589	6.244	2.598	1.00	0.00
ATOM 202	O	LEU A	18	140.918	7.129	1.808	1.00	0.00
ATOM 203	CB	LEU A	18	139.853	4.729	0.748	1.00	0.00
ATOM 204	CG	LEU A	18	138.917	3.640	0.221	1.00	0.00
ATOM 205	CD1	LEU A	18	139.110	3.449	-1.275	1.00	0.00
ATOM 206	CD2	LEU A	18	139.152	2.333	0.963	1.00	0.00
ATOM 207	H	LEU A	18	137.719	5.899	1.537	1.00	0.00
ATOM 208	HA	LEU A	18	139.719	4.312	2.843	1.00	0.00
ATOM 209	1HB	LEU A	18	139.759	5.596	0.111	1.00	0.00
ATOM 210	2HB	LEU A	18	140.867	4.364	0.682	1.00	0.00
ATOM 211	HG	LEU A	18	137.894	3.943	0.389	1.00	0.00
ATOM 212	1HD1	LEU A	18	139.533	4.346	-1.702	1.00	0.00
ATOM 213	2HD1	LEU A	18	138.156	3.245	-1.738	1.00	0.00

ATOM 214	3HD1	LEU	A	18	139.780	2.619	-1.448	1.00	0.00
ATOM 215	1HD2	LEU	A	18	139.819	1.708	0.388	1.00	0.00
ATOM 216	2HD2	LEU	A	18	138.209	1.823	1.100	1.00	0.00
ATOM 217	3HD2	LEU	A	18	139.593	2.540	1.926	1.00	0.00
ATOM 218	N	GLU	A	19	141.068	6.165	3.835	1.00	0.00
ATOM 219	CA	GLU	A	19	142.029	7.136	4.347	1.00	0.00
ATOM 220	C	GLU	A	19	143.037	6.466	5.275	1.00	0.00
ATOM 221	O	GLU	A	19	142.923	5.278	5.577	1.00	0.00
ATOM 222	CB	GLU	A	19	141.303	8.260	5.089	1.00	0.00
ATOM 223	CG	GLU	A	19	140.301	7.762	6.117	1.00	0.00
ATOM 224	CD	GLU	A	19	140.305	8.594	7.385	1.00	0.00
ATOM 225	OE1	GLU	A	19	140.932	8.163	8.375	1.00	0.00
ATOM-226	OE2	GLU	A	19	139.680	9.675	7.387	1.00	0.00
ATOM 227	H	GLU	A	19	140.769	5.436	4.418	1.00	0.00
ATOM 228	HA	GLU	A	19	142.557	7.556	3.504	1.00	0.00
ATOM 229	1HB	GLU	A	19	142.034	8.870	5.597	1.00	0.00
ATOM 230	2HB	GLU	A	19	140.776	8.869	4.369	1.00	0.00
ATOM 231	1HG	GLU	A	19	139.313	7.798	5.684	1.00	0.00
ATOM 232	2HG	GLU	A	19	140.544	6.741	6.373	1.00	0.00
ATOM 233	N	VAL	A	20	144.023	7.236	5.725	1.00	0.00
ATOM 234	CA	VAL	A	20	145.050	6.716	6.619	1.00	0.00
ATOM 235	C	VAL	A	20	144.436	6.165	7.900	1.00	0.00
ATOM 236	O	VAL	A	20	143.738	6.876	8.623	1.00	0.00
ATOM 237	CB	VAL	A	20	146.080	7.803	6.983	1.00	0.00
ATOM 238	CG1	VAL	A	20	147.238	7.202	7.764	1.00	0.00
ATOM 239	CG2	VAL	A	20	146.580	8.506	5.730	1.00	0.00
ATOM 240	H	VAL	A	20	144.060	8.176	5.449	1.00	0.00
ATOM 241	HA	VAL	A	20	145.567	5.918	6.106	1.00	0.00
ATOM 242	HB	VAL	A	20	145.593	8.535	7.611	1.00	0.00

ATOM 243	1HG1	VAL	A	20	147.403	6.185	7.440	1.00	0.00
ATOM 244	2HG1	VAL	A	20	147.005	7.210	8.819	1.00	0.00
ATOM 245	3HG1	VAL	A	20	148.132	7.784	7.589	1.00	0.00
ATOM 246	1HG2	VAL	A	20	146.840	7.770	4.984	1.00	0.00
ATOM 247	2HG2	VAL	A	20	147.451	9.097	5.972	1.00	0.00
ATOM 248	3HG2	VAL	A	20	145.804	9.151	5.346	1.00	0.00
ATOM 249	N	GLY	A	21	144.699	4.891	8.176	1.00	0.00
ATOM 250	CA	GLY	A	21	144.164	4.265	9.371	1.00	0.00
ATOM 251	C	GLY	A	21	143.115	3.216	9.056	1.00	0.00
ATOM 252	O	GLY	A	21	142.936	2.260	9.811	1.00	0.00
ATOM 253	H	GLY	A	21	145.261	4.373	7.564	1.00	0.00
ATOM 254	1HA	GLY	A	21	144.973	3.798	9.913	1.00	0.00
ATOM 255	2HA	GLY	A	21	143.719	5.026	9.995	1.00	0.00
ATOM 256	N	SER	A	22	142.420	3.395	7.938	1.00	0.00
ATOM 257	CA	SER	A	22	141.382	2.457	7.523	1.00	0.00
ATOM 258	C	SER	A	22	141.973	1.329	6.683	1.00	0.00
ATOM 259	O	SER	A	22	143.052	1.470	6.109	1.00	0.00
ATOM 260	CB	SER	A	22	140.295	3.184	6.731	1.00	0.00
ATOM 261	OG	SER	A	22	139.823	4.320	7.435	1.00	0.00
ATOM 262	H	SER	A	22	142.608	4.177	7.377	1.00	0.00
ATOM 263	HA	SER	A	22	140.944	2.034	8.414	1.00	0.00
ATOM 264	1HB	SER	A	22	140.698	3.506	5.783	1.00	0.00
ATOM 265	2HB	SER	A	22	139.467	2.512	6.560	1.00	0.00
ATOM 266	HG	SER	A	22	139.523	4.982	6.809	1.00	0.00
ATOM 267	N	LEU	A	23	141.257	0.211	6.615	1.00	0.00
ATOM 268	CA	LEU	A	23	141.709	-0.941	5.845	1.00	0.00
ATOM 269	C	LEU	A	23	141.254	-0.838	4.392	1.00	0.00
ATOM 270	O	LEU	A	23	140.219	-0.239	4.097	1.00	0.00
ATOM 271	CB	LEU	A	23	141.184	-2.235	6.466	1.00	0.00

ATOM 272	CG	LEU A	23	141.434	-2.381	7.968	1.00	0.00
ATOM 273	CD1	LEU A	23	140.439	-3.352	8.583	1.00	0.00
ATOM 274	CD2	LEU A	23	142.860	-2.841	8.227	1.00	0.00
ATOM 275	H	LEU A	23	140.404	0.160	7.094	1.00	0.00
ATOM 276	HA	LEU A	23	142.789	-0.952	5.869	1.00	0.00
ATOM 277	1HB	LEU A	23	140.119	-2.286	6.292	1.00	0.00
ATOM 278	2HB	LEU A	23	141.653	-3.068	5.964	1.00	0.00
ATOM 279	HG	LEU A	23	141.299	-1.420	8.443	1.00	0.00
ATOM 280	1HD1	LEU A	23	139.559	-3.411	7.959	1.00	0.00
ATOM 281	2HD1	LEU A	23	140.160	-3.006	9.568	1.00	0.00
ATOM 282	3HD1	LEU A	23	140.891	-4.330	8.660	1.00	0.00
ATOM 283	1HD2	LEU A	23	143.222	-3.393	7.372	1.00	0.00
ATOM 284	2HD2	LEU A	23	142.881	-3.476	9.100	1.00	0.00
ATOM 285	3HD2	LEU A	23	143.491	-1.979	8.394	1.00	0.00
ATOM 286	N	ALA A	24	142.031	-1.428	3.490	1.00	0.00
ATOM 287	CA	ALA A	24	141.706	-1.404	2.069	1.00	0.00
ATOM 288	C	ALA A	24	142.159	-2.687	1.380	1.00	0.00
ATOM 289	O	ALA A	24	142.913	-3.476	1.950	1.00	0.00
ATOM 290	CB	ALA A	24	142.341	-0.192	1.404	1.00	0.00
ATOM 291	H	ALA A	24	142.842	-1.891	3.787	1.00	0.00
ATOM 292	HA	ALA A	24	140.634	-1.316	1.975	1.00	0.00
ATOM 293	1HB	ALA A	24	143.242	0.079	1.935	1.00	0.00
ATOM 294	2HB	ALA A	24	141.648	0.635	1.424	1.00	0.00
ATOM 295	3HB	ALA A	24	142.587	-0.432	0.380	1.00	0.00
ATOM 296	N	GLU A	25	141.693	-2.889	0.152	1.00	0.00
ATOM 297	CA	GLU A	25	142.049	-4.075	-0.616	1.00	0.00
ATOM 298	C	GLU A	25	142.445	-3.702	-2.042	1.00	0.00
ATOM 299	O	GLU A	25	141.940	-2.729	-2.600	1.00	0.00
ATOM 300	CB	GLU A	25	140.880	-5.062	-0.640	1.00	0.00

ATOM 301	CG	GLU A	25	141.279	-6.470	-1.053	1.00	0.00
ATOM 302	CD	GLU A	25	140.213	-7.159	-1.880	1.00	0.00
ATOM 303	OE1	GLU A	25	139.017	-7.009	-1.552	1.00	0.00
ATOM 304	OE2	GLU A	25	140.572	-7.849	-2.857	1.00	0.00
ATOM 305	H	GLU A	25	141.095	-2.223	-0.247	1.00	0.00
ATOM 306	HA	GLU A	25	142.894	-4.543	-0.131	1.00	0.00
ATOM 307	1HB	GLU A	25	140.443	-5.109	0.346	1.00	0.00
ATOM 308	2HB	GLU A	25	140.136	-4.703	-1.337	1.00	0.00
ATOM 309	1HG	GLU A	25	142.186	-6.417	-1.635	1.00	0.00
ATOM 310	2HG	GLU A	25	141.457	-7.054	-0.162	1.00	0.00
ATOM 311	N	VAL A	26	143.350	-4.483	-2.623	1.00	0.00
ATOM 312	CA	VAL A	26	143.813	-4.233	-3.984	1.00	0.00
ATOM 313	C	VAL A	26	143.423	-5.375	-4.915	1.00	0.00
ATOM 314	O	VAL A	26	143.204	-6.502	-4.472	1.00	0.00
ATOM 315	CB	VAL A	26	145.341	-4.044	-4.032	1.00	0.00
ATOM 316	CG1	VAL A	26	145.778	-3.585	-5.414	1.00	0.00
ATOM 317	CG2	VAL A	26	145.791	-3.057	-2.966	1.00	0.00
ATOM 318	H	VAL A	26	143.716	-5.244	-2.127	1.00	0.00
ATOM 319	HA	VAL A	26	143.347	-3.321	-4.332	1.00	0.00
ATOM 320	HB	VAL A	26	145.807	-4.997	-3.830	1.00	0.00
ATOM 321	1HG1	VAL A	26	145.945	-4.447	-6.044	1.00	0.00
ATOM 322	2HG1	VAL A	26	146.694	-3.018	-5.331	1.00	0.00
ATOM 323	3HG1	VAL A	26	145.009	-2.965	-5.849	1.00	0.00
ATOM 324	1HG2	VAL A	26	145.624	-3.482	-1.988	1.00	0.00
ATOM 325	2HG2	VAL A	26	145.227	-2.141	-3.062	1.00	0.00
ATOM 326	3HG2	VAL A	26	146.843	-2.847	-3.092	1.00	0.00
ATOM 327	N	LYS A	27	143.338	-5.075	-6.206	1.00	0.00
ATOM 328	CA	LYS A	27	142.973	-6.078	-7.201	1.00	0.00
ATOM 329	C	LYS A	27	144.218	-6.678	-7.851	1.00	0.00

ATOM 330	O	LYS A	27	144.425	-6.549	-9.057	1.00	0.00
ATOM 331	CB	LYS A	27	142.069	-5.461	-8.270	1.00	0.00
ATOM 332	CG	LYS A	27	141.112	-6.456	-8.904	1.00	0.00
ATOM 333	CD	LYS A	27	140.187	-5.780	-9.903	1.00	0.00
ATOM 334	CE	LYS A	27	138.844	-6.486	-9.986	1.00	0.00
ATOM 335	NZ	LYS A	27	138.778	-7.421	-11.143	1.00	0.00
ATOM 336	H	LYS A	27	143.523	-4.159	-6.499	1.00	0.00
ATOM 337	HA	LYS A	27	142.433	-6.864	-6.695	1.00	0.00
ATOM 338	1HB	LYS A	27	141.488	-4.670	-7.821	1.00	0.00
ATOM 339	2HB	LYS A	27	142.688	-5.042	-9.050	1.00	0.00
ATOM 340	1HG	LYS A	27	141.683	-7.215	-9.417	1.00	0.00
ATOM 341	2HG	LYS A	27	140.516	-6.913	-8.128	1.00	0.00
ATOM 342	1HD	LYS A	27	140.026	-4.758	-9.594	1.00	0.00
ATOM 343	2HD	LYS A	27	140.652	-5.794	-10.877	1.00	0.00
ATOM 344	1HE	LYS A	27	138.688	-7.045	-9.074	1.00	0.00
ATOM 345	2HE	LYS A	27	138.066	-5.744	-10.089	1.00	0.00
ATOM 346	1HZ	LYS A	27	139.310	-7.031	-11.948	1.00	0.00
ATOM 347	2HZ	LYS A	27	137.790	-7.564	-11.432	1.00	0.00
ATOM 348	3HZ	LYS A	27	139.188	-8.341	-10.883	1.00	0.00
ATOM 349	N	GLU A	28	145.043	-7.334	-7.041	1.00	0.00
ATOM 350	CA	GLU A	28	146.266	-7.954	-7.535	1.00	0.00
ATOM 351	C	GLU A	28	146.086	-9.461	-7.691	1.00	0.00
ATOM 352	O	GLU A	28	144.982	-9.982	-7.537	1.00	0.00
ATOM 353	CB	GLU A	28	147.431	-7.661	-6.586	1.00	0.00
ATOM 354	CG	GLU A	28	148.684	-7.174	-7.294	1.00	0.00
ATOM 355	CD	GLU A	28	149.788	-6.792	-6.326	1.00	0.00
ATOM 356	OE1	GLU A	28	149.789	-5.637	-5.852	1.00	0.00
ATOM 357	OE2	GLU A	28	150.652	-7.648	-6.044	1.00	0.00
ATOM 358	H	GLU A	28	144.823	-7.402	-6.088	1.00	0.00

ATOM 359	HA	GLU A	28	146.487	-7.528	-8.503	1.00	0.00
ATOM 360	1HB	GLU A	28	147.123	-6.903	-5.881	1.00	0.00
ATOM 361	2HB	GLU A	28	147.678	-8.564	-6.045	1.00	0.00
ATOM 362	1HG	GLU A	28	149.048	-7.959	-7.939	1.00	0.00
ATOM 363	2HG	GLU A	28	148.432	-6.308	-7.890	1.00	0.00
ATOM 364	N	ASN A	29	147.178	-10.153	-7.996	1.00	0.00
ATOM 365	CA	ASN A	29	147.139	-11.601	-8.170	1.00	0.00
ATOM 366	C	ASN A	29	146.933	-12.302	-6.830	1.00	0.00
ATOM 367	O	ASN A	29	145.965	-13.040	-6.648	1.00	0.00
ATOM 368	CB	ASN A	29	148.429	-12.092	-8.830	1.00	0.00
ATOM 369	CG	ASN A	29	148.271	-12.304	-10.322	1.00	0.00
ATOM 370	OD1	ASN A	29	148.150	-13.436	-10.791	1.00	0.00
ATOM 371	ND2	ASN A	29	148.269	-11.212	-11.078	1.00	0.00
ATOM 372	H	ASN A	29	148.029	-9.682	-8.105	1.00	0.00
ATOM 373	HA	ASN A	29	146.304	-11.833	-8.816	1.00	0.00
ATOM 374	1HB	ASN A	29	149.208	-11.362	-8.669	1.00	0.00
ATOM 375	2HB	ASN A	29	148.722	-13.030	-8.380	1.00	0.00
ATOM 376	1HD2	ASN A	29	148.370	-10.343	-10.636	1.00	0.00
ATOM 377	2HD2	ASN A	29	148.169	-11.319	-12.047	1.00	0.00
ATOM 378	N	PRO A	30	147.846	-12.079	-5.868	1.00	0.00
ATOM 379	CA	PRO A	30	147.762	-12.691	-4.541	1.00	0.00
ATOM 380	C	PRO A	30	146.760	-11.975	-3.636	1.00	0.00
ATOM 381	O	PRO A	30	146.982	-10.833	-3.235	1.00	0.00
ATOM 382	CB	PRO A	30	149.180	-12.526	-3.999	1.00	0.00
ATOM 383	CG	PRO A	30	149.681	-11.277	-4.640	1.00	0.00
ATOM 384	CD	PRO A	30	149.034	-11.211	-6.000	1.00	0.00
ATOM 385	HA	PRO A	30	147.515	-13.740	-4.601	1.00	0.00
ATOM 386	1HB	PRO A	30	149.149	-12.435	-2.922	1.00	0.00
ATOM 387	2HB	PRO A	30	149.778	-13.380	-4.279	1.00	0.00

ATOM 388	1HG	PRO A	30	149.394	-10.421	-4.046	1.00	0.00
ATOM 389	2HG	PRO A	30	150.755	-11.323	-4.738	1.00	0.00
ATOM 390	1HD	PRO A	30	148.744	-10.196	-6.228	1.00	0.00
ATOM 391	2HD	PRO A	30	149.705	-11.590	-6.754	1.00	0.00
ATOM 392	N	PRO A	31	145.636	-12.636	-3.300	1.00	0.00
ATOM 393	CA	PRO A	31	144.604	-12.048	-2.439	1.00	0.00
ATOM 394	C	PRO A	31	145.149	-11.661	-1.068	1.00	0.00
ATOM 395	O	PRO A	31	145.121	-12.457	-0.130	1.00	0.00
ATOM 396	CB	PRO A	31	143.561	-13.163	-2.302	1.00	0.00
ATOM 397	CG	PRO A	31	143.805	-14.066	-3.462	1.00	0.00
ATOM 398	CD	PRO A	31	145.281	-14.000	-3.729	1.00	0.00
ATOM 399	HA	PRO A	31	144.152	-11.181	-2.900	1.00	0.00
ATOM 400	1HB	PRO A	31	143.703	-13.679	-1.364	1.00	0.00
ATOM 401	2HB	PRO A	31	142.569	-12.737	-2.337	1.00	0.00
ATOM 402	1HG	PRO A	31	143.514	-15.075	-3.210	1.00	0.00
ATOM 403	2HG	PRO A	31	143.253	-13.718	-4.321	1.00	0.00
ATOM 404	1HD	PRO A	31	145.806	-14.740	-3.141	1.00	0.00
ATOM 405	2HD	PRO A	31	145.482	-14.138	-4.780	1.00	0.00
ATOM 406	N	PHE A	32	145.645	-10.432	-0.960	1.00	0.00
ATOM 407	CA	PHE A	32	146.196	-9.939	0.298	1.00	0.00
ATOM 408	C	PHE A	32	145.290	-8.877	0.910	1.00	0.00
ATOM 409	O	PHE A	32	144.361	-8.391	0.263	1.00	0.00
ATOM 410	CB	PHE A	32	147.596	-9.363	0.074	1.00	0.00
ATOM 411	CG	PHE A	32	147.655	-8.335	-1.019	1.00	0.00
ATOM 412	CD1	PHE A	32	147.052	-7.098	-0.857	1.00	0.00
ATOM 413	CD2	PHE A	32	148.313	-8.606	-2.208	1.00	0.00
ATOM 414	CE1	PHE A	32	147.105	-6.150	-1.861	1.00	0.00
ATOM 415	CE2	PHE A	32	148.368	-7.662	-3.216	1.00	0.00
ATOM 416	CZ	PHE A	32	147.764	-6.432	-3.043	1.00	0.00

ATOM 417	H	PHE A	32	145.640	-9.844	-1.742	1.00	0.00
ATOM 418	HA	PHE A	32	146.265	-10.773	0.979	1.00	0.00
ATOM 419	1HB	PHE A	32	147.936	-8.897	0.986	1.00	0.00
ATOM 420	2HB	PHE A	32	148.271	-10.166	-0.187	1.00	0.00
ATOM 421	HD1	PHE A	32	146.537	-6.876	0.065	1.00	0.00
ATOM 422	HD2	PHE A	32	148.786	-9.568	-2.345	1.00	0.00
ATOM 423	HE1	PHE A	32	146.631	-5.190	-1.723	1.00	0.00
ATOM 424	HE2	PHE A	32	148.884	-7.885	-4.138	1.00	0.00
ATOM 425	HZ	PHE A	32	147.806	-5.692	-3.828	1.00	0.00
ATOM 426	N	TYR A	33	145.564	-8.520	2.160	1.00	0.00
ATOM 427	CA	TYR A	33	144.772	-7.516	2.860	1.00	0.00
ATOM 428	C	TYR A	33	145.668	-6.578	3.662	1.00	0.00
ATOM 429	O	TYR A	33	146.300	-6.990	4.636	1.00	0.00
ATOM 430	CB	TYR A	33	143.758	-8.189	3.787	1.00	0.00
ATOM 431	CG	TYR A	33	142.506	-8.653	3.078	1.00	0.00
ATOM 432	CD1	TYR A	33	141.622	-7.739	2.518	1.00	0.00
ATOM 433	CD2	TYR A	33	142.207	-10.006	2.968	1.00	0.00
ATOM 434	CE1	TYR A	33	140.476	-8.159	1.869	1.00	0.00
ATOM 435	CE2	TYR A	33	141.063	-10.434	2.321	1.00	0.00
ATOM 436	CZ	TYR A	33	140.202	-9.507	1.774	1.00	0.00
ATOM 437	OH	TYR A	33	139.063	-9.929	1.128	1.00	0.00
ATOM 438	H	TYR A	33	146.317	-8.943	2.624	1.00	0.00
ATOM 439	HA	TYR A	33	144.240	-6.938	2.119	1.00	0.00
ATOM 440	1HB	TYR A	33	144.218	-9.051	4.246	1.00	0.00
ATOM 441	2HB	TYR A	33	143.466	-7.490	4.556	1.00	0.00
ATOM 442	HD1	TYR A	33	141.840	-6.684	2.594	1.00	0.00
ATOM 443	HD2	TYR A	33	142.884	-10.729	3.399	1.00	0.00
ATOM 444	HE1	TYR A	33	139.802	-7.434	1.440	1.00	0.00
ATOM 445	HE2	TYR A	33	140.850	-11.490	2.247	1.00	0.00

ATOM 446	HH	TYR A	33	138.936	-9.413	0.329	1.00	0.00
ATOM 447	N	GLY A	34	145.718	-5.317	3.249	1.00	0.00
ATOM 448	CA	GLY A	34	146.539	-4.340	3.940	1.00	0.00
ATOM 449	C	GLY A	34	145.736	-3.149	4.428	1.00	0.00
ATOM 450	O	GLY A	34	144.535	-3.056	4.177	1.00	0.00
ATOM 451	H	GLY A	34	145.192	-5.046	2.467	1.00	0.00
ATOM 452	1HA	GLY A	34	147.008	-4.815	4.789	1.00	0.00
ATOM 453	2HA	GLY A	34	147.307	-3.990	3.266	1.00	0.00
ATOM 454	N	VAL A	35	146.402	-2.237	5.128	1.00	0.00
ATOM 455	CA	VAL A	35	145.745	-1.046	5.652	1.00	0.00
ATOM 456	C	VAL A	35	146.403	0.224	5.120	1.00	0.00
ATOM 457	O	VAL A	35	147.618	0.274	4.935	1.00	0.00
ATOM 458	CB	VAL A	35	145.772	-1.023	7.194	1.00	0.00
ATOM 459	CG1	VAL A	35	147.205	-0.993	7.705	1.00	0.00
ATOM 460	CG2	VAL A	35	144.983	0.162	7.727	1.00	0.00
ATOM 461	H	VAL A	35	147.359	-2.366	5.294	1.00	0.00
ATOM 462	HA	VAL A	35	144.713	-1.066	5.332	1.00	0.00
ATOM 463	HB	VAL A	35	145.307	-1.929	7.554	1.00	0.00
ATOM 464	1HG1	VAL A	35	147.873	-1.340	6.930	1.00	0.00
ATOM 465	2HG1	VAL A	35	147.293	-1.635	8.570	1.00	0.00
ATOM 466	3HG1	VAL A	35	147.468	0.018	7.980	1.00	0.00
ATOM 467	1HG2	VAL A	35	145.274	1.057	7.198	1.00	0.00
ATOM 468	2HG2	VAL A	35	145.186	0.285	8.781	1.00	0.00
ATOM 469	3HG2	VAL A	35	143.927	-0.015	7.584	1.00	0.00
ATOM 470	N	ILE A	36	145.591	1.248	4.876	1.00	0.00
ATOM 471	CA	ILE A	36	146.096	2.517	4.365	1.00	0.00
ATOM 472	C	ILE A	36	147.061	3.159	5.356	1.00	0.00
ATOM 473	O	ILE A	36	146.812	3.173	6.562	1.00	0.00
ATOM 474	CB	ILE A	36	144.948	3.503	4.069	1.00	0.00

ATOM 475	CG1	ILE A	36	143.892	2.840	3.183	1.00	0.00
ATOM 476	CG2	ILE A	36	145.488	4.763	3.406	1.00	0.00
ATOM 477	CD1	ILE A	36	142.739	3.756	2.826	1.00	0.00
ATOM 478	H	ILE A	36	144.631	1.147	5.044	1.00	0.00
ATOM 479	HA	ILE A	36	146.621	2.319	3.442	1.00	0.00
ATOM 480	HB	ILE A	36	144.495	3.785	5.007	1.00	0.00
ATOM 481	1HG1	ILE A	36	144.354	2.517	2.262	1.00	0.00
ATOM 482	2HG1	ILE A	36	143.486	1.981	3.697	1.00	0.00
ATOM 483	1HG2	ILE A	36	145.324	4.707	2.341	1.00	0.00
ATOM 484	2HG2	ILE A	36	146.545	4.850	3.604	1.00	0.00
ATOM 485	3HG2	ILE A	36	144.975	5.626	3.805	1.00	0.00
ATOM 486	1HD1	ILE A	36	142.049	3.805	3.654	1.00	0.00
ATOM 487	2HD1	ILE A	36	142.230	3.370	1.955	1.00	0.00
ATOM 488	3HD1	ILE A	36	143.118	4.744	2.613	1.00	0.00
ATOM 489	N	ARG A	37	148.167	3.687	4.840	1.00	0.00
ATOM 490	CA	ARG A	37	149.172	4.328	5.679	1.00	0.00
ATOM 491	C	ARG A	37	149.440	5.757	5.214	1.00	0.00
ATOM 492	O	ARG A	37	149.255	6.711	5.969	1.00	0.00
ATOM 493	CB	ARG A	37	150.471	3.521	5.662	1.00	0.00
ATOM 494	CG	ARG A	37	150.268	2.038	5.926	1.00	0.00
ATOM 495	CD	ARG A	37	149.643	1.795	7.290	1.00	0.00
ATOM 496	NE	ARG A	37	150.560	2.125	8.379	1.00	0.00
ATOM 497	CZ	ARG A	37	150.200	2.184	9.659	1.00	0.00
ATOM 498	NH1	ARG A	37	148.945	1.938	10.015	1.00	0.00
ATOM 499	NH2	ARG A	37	151.097	2.492	10.585	1.00	0.00
ATOM 500	H	ARG A	37	148.310	3.644	3.871	1.00	0.00
ATOM 501	HA	ARG A	37	148.791	4.358	6.689	1.00	0.00
ATOM 502	1HB	ARG A	37	150.938	3.632	4.694	1.00	0.00
ATOM 503	2HB	ARG A	37	151.134	3.912	6.420	1.00	0.00

ATOM 504	1HG	ARG A	37	149.617	1.633	5.165	1.00	0.00
ATOM 505	2HG	ARG A	37	151.226	1.541	5.885	1.00	0.00
ATOM 506	1HD	ARG A	37	148.758	2.408	7.381	1.00	0.00
ATOM 507	2HD	ARG A	37	149.369	0.754	7.366	1.00	0.00
ATOM 508	HE	ARG A	37	151.493	2.313	8.144	1.00	0.00
ATOM 509	1HH1	ARG A	37	148.264	1.706	9.321	1.00	0.00
ATOM 510	2HH1	ARG A	37	148.681	1.984	10.979	1.00	0.00
ATOM 511	1HH2	ARG A	37	152.044	2.678	10.322	1.00	0.00
ATOM 512	2HH2	ARG A	37	150.827	2.536	11.548	1.00	0.00
ATOM 513	N	TRP A	38	149.880	5.895	3.966	1.00	0.00
ATOM 514	CA	TRP A	38	150.174	7.208	3.403	1.00	0.00
ATOM 515	C	TRP A	38	149.462	7.403	2.068	1.00	0.00
ATOM 516	O	TRP A	38	149.486	6.526	1.205	1.00	0.00
ATOM 517	CB	TRP A	38	151.686	7.384	3.223	1.00	0.00
ATOM 518	CG	TRP A	38	152.057	8.601	2.427	1.00	0.00
ATOM 519	CD1	TRP A	38	152.293	9.857	2.909	1.00	0.00
ATOM 520	CD2	TRP A	38	152.228	8.678	1.007	1.00	0.00
ATOM 521	NE1	TRP A	38	152.601	10.709	1.874	1.00	0.00
ATOM 522	CE2	TRP A	38	152.568	10.008	0.698	1.00	0.00
ATOM 523	CE3	TRP A	38	152.128	7.749	-0.033	1.00	0.00
ATOM 524	CZ2	TRP A	38	152.807	10.431	-0.608	1.00	0.00
ATOM 525	CZ3	TRP A	38	152.366	8.170	-1.328	1.00	0.00
ATOM 526	CH2	TRP A	38	152.702	9.500	-1.606	1.00	0.00
ATOM 527	H	TRP A	38	150.009	5.098	3.413	1.00	0.00
ATOM 528	HA	TRP A	38	149.817	7.954	4.099	1.00	0.00
ATOM 529	1HB	TRP A	38	152.150	7.468	4.194	1.00	0.00
ATOM 530	2HB	TRP A	38	152.083	6.518	2.714	1.00	0.00
ATOM 531	HD1	TRP A	38	152.241	10.128	3.953	1.00	0.00
ATOM 532	HE1	TRP A	38	152.810	11.662	1.966	1.00	0.00

ATOM 533	HE3	TRP A	38	151.871	6.719	0.162	1.00	0.00
ATOM 534	HZ2	TRP A	38	153.064	11.453	-0.839	1.00	0.00
ATOM 535	HZ3	TRP A	38	152.293	7.466	-2.144	1.00	0.00
ATOM 536	HH2	TRP A	38	152.880	9.785	-2.633	1.00	0.00
ATOM 537	N	ILE A	39	148.840	8.565	1.903	1.00	0.00
ATOM 538	CA	ILE A	39	148.129	8.888	0.673	1.00	0.00
ATOM 539	C	ILE A	39	148.644	10.196	0.083	1.00	0.00
ATOM 540	O	ILE A	39	148.356	11.276	0.600	1.00	0.00
ATOM 541	CB	ILE A	39	146.612	9.006	0.912	1.00	0.00
ATOM 542	CG1	ILE A	39	146.098	7.788	1.681	1.00	0.00
ATOM 543	CG2	ILE A	39	145.876	9.153	-0.412	1.00	0.00
ATOM 544	CD1	ILE A	39	144.744	8.003	2.321	1.00	0.00
ATOM 545	H	ILE A	39	148.864	9.226	2.627	1.00	0.00
ATOM 546	HA	ILE A	39	148.302	8.090	-0.034	1.00	0.00
ATOM 547	HB	ILE A	39	146.429	9.895	1.497	1.00	0.00
ATOM 548	1HG1	ILE A	39	146.014	6.951	1.004	1.00	0.00
ATOM 549	2HG1	ILE A	39	146.800	7.541	2.464	1.00	0.00
ATOM 550	1HG2	ILE A	39	146.353	9.919	-1.005	1.00	0.00
ATOM 551	2HG2	ILE A	39	144.849	9.430	-0.224	1.00	0.00
ATOM 552	3HG2	ILE A	39	145.904	8.214	-0.945	1.00	0.00
ATOM 553	1HD1	ILE A	39	144.547	9.062	2.400	1.00	0.00
ATOM 554	2HD1	ILE A	39	144.737	7.561	3.306	1.00	0.00
ATOM 555	3HD1	ILE A	39	143.980	7.540	1.713	1.00	0.00
ATOM 556	N	GLY A	40	149.411	10.094	-0.997	1.00	0.00
ATOM 557	CA	GLY A	40	149.957	11.280	-1.629	1.00	0.00
ATOM 558	C	GLY A	40	150.521	11.002	-3.007	1.00	0.00
ATOM 559	O	GLY A	40	150.356	9.909	-3.548	1.00	0.00
ATOM 560	H	GLY A	40	149.611	9.207	-1.365	1.00	0.00
ATOM 561	1HA	GLY A	40	149.177	12.019	-1.714	1.00	0.00

ATOM 562	2HA	GLY A	40	150.743	11.674	-1.004	1.00	0.00
ATOM 563	N	GLN A	41	151.189	12.000	-3.577	1.00	0.00
ATOM 564	CA	GLN A	41	151.781	11.871	-4.901	1.00	0.00
ATOM 565	C	GLN A	41	153.254	12.277	-4.876	1.00	0.00
ATOM 566	O	GLN A	41	153.579	13.436	-4.618	1.00	0.00
ATOM 567	CB	GLN A	41	151.014	12.736	-5.900	1.00	0.00
ATOM 568	CG	GLN A	41	149.507	12.549	-5.832	1.00	0.00
ATOM 569	CD	GLN A	41	148.751	13.854	-5.985	1.00	0.00
ATOM 570	OE1	GLN A	41	148.708	14.671	-5.065	1.00	0.00
ATOM 571	NE2	GLN A	41	148.150	14.054	-7.151	1.00	0.00
ATOM 572	H	GLN A	41	151.283	12.847	-3.095	1.00	0.00
ATOM 573	HA	GLN A	41	151.705	10.837	-5.201	1.00	0.00
ATOM 574	1HB	GLN A	41	151.234	13.774	-5.703	1.00	0.00
ATOM 575	2HB	GLN A	41	151.343	12.491	-6.897	1.00	0.00
ATOM 576	1HG	GLN A	41	149.204	11.882	-6.625	1.00	0.00
ATOM 577	2HG	GLN A	41	149.253	12.112	-4.878	1.00	0.00
ATOM 578	1HE2	GLN A	41	148.228	13.358	-7.836	1.00	0.00
ATOM 579	2HE2	GLN A	41	147.654	14.890	-7.279	1.00	0.00
ATOM 580	N	PRO A	42	154.170	11.328	-5.143	1.00	0.00
ATOM 581	CA	PRO A	42	155.611	11.603	-5.144	1.00	0.00
ATOM 582	C	PRO A	42	155.990	12.708	-6.124	1.00	0.00
ATOM 583	O	PRO A	42	155.242	13.007	-7.055	1.00	0.00
ATOM 584	CB	PRO A	42	156.234	10.270	-5.576	1.00	0.00
ATOM 585	CG	PRO A	42	155.205	9.245	-5.250	1.00	0.00
ATOM 586	CD	PRO A	42	153.880	9.918	-5.459	1.00	0.00
ATOM 587	HA	PRO A	42	155.964	11.863	-4.157	1.00	0.00
ATOM 588	1HB	PRO A	42	156.445	10.297	-6.636	1.00	0.00
ATOM 589	2HB	PRO A	42	157.147	10.100	-5.025	1.00	0.00
ATOM 590	1HG	PRO A	42	155.304	8.398	-5.913	1.00	0.00

ATOM 591	2HG	PRO A	42	155.308	8.933	-4.221	1.00	0.00
ATOM 592	1HD	PRO A	42	153.560	9.812	-6.486	1.00	0.00
ATOM 593	2HD	PRO A	42	153.139	9.516	-4.785	1.00	0.00
ATOM 594	N	PRO A	43	157.164	13.333	-5.927	1.00	0.00
ATOM 595	CA	PRO A	43	157.639	14.410	-6.798	1.00	0.00
ATOM 596	C	PRO A	43	158.084	13.898	-8.162	1.00	0.00
ATOM 597	O	PRO A	43	159.259	13.598	-8.370	1.00	0.00
ATOM 598	CB	PRO A	43	158.831	14.985	-6.032	1.00	0.00
ATOM 599	CG	PRO A	43	159.327	13.854	-5.201	1.00	0.00
ATOM 600	CD	PRO A	43	158.115	13.037	-4.839	1.00	0.00
ATOM 601	HA	PRO A	43	156.888	15.175	-6.929	1.00	0.00
ATOM 602	1HB	PRO A	43	159.580	15.320	-6.733	1.00	0.00
ATOM 603	2HB	PRO A	43	158.505	15.812	-5.420	1.00	0.00
ATOM 604	1HG	PRO A	43	160.024	13.257	-5.770	1.00	0.00
ATOM 605	2HG	PRO A	43	159.801	14.235	-4.308	1.00	0.00
ATOM 606	1HD	PRO A	43	158.363	11.985	-4.819	1.00	0.00
ATOM 607	2HD	PRO A	43	157.720	13.350	-3.885	1.00	0.00
ATOM 608	N	GLY A	44	157.137	13.799	-9.088	1.00	0.00
ATOM 609	CA	GLY A	44	157.455	13.321	-10.420	1.00	0.00
ATOM 610	C	GLY A	44	156.242	12.780	-11.148	1.00	0.00
ATOM 611	O	GLY A	44	155.976	13.154	-12.290	1.00	0.00
ATOM 612	H	GLY A	44	156.217	14.052	-8.866	1.00	0.00
ATOM 613	1HA	GLY A	44	157.870	14.136	-10.993	1.00	0.00
ATOM 614	2HA	GLY A	44	158.193	12.538	-10.344	1.00	0.00
ATOM 615	N	LEU A	45	155.501	11.897	-10.485	1.00	0.00
ATOM 616	CA	LEU A	45	154.309	11.306	-11.079	1.00	0.00
ATOM 617	C	LEU A	45	153.078	11.600	-10.230	1.00	0.00
ATOM 618	O	LEU A	45	152.951	11.097	-9.114	1.00	0.00
ATOM 619	CB	LEU A	45	154.485	9.794	-11.233	1.00	0.00

ATOM 620	CG	LEU A	45	155.017	9.076	-9.993	1.00	0.00
ATOM 621	CD1	LEU A	45	154.677	7.593	-10.044	1.00	0.00
ATOM 622	CD2	LEU A	45	156.521	9.282	-9.864	1.00	0.00
ATOM 623	H	LEU A	45	155.762	11.639	-9.575	1.00	0.00
ATOM 624	HA	LEU A	45	154.171	11.745	-12.056	1.00	0.00
ATOM 625	1HB	LEU A	45	153.527	9.365	-11.490	1.00	0.00
ATOM 626	2HB	LEU A	45	155.170	9.614	-12.048	1.00	0.00
ATOM 627	HG	LEU A	45	154.546	9.495	-9.114	1.00	0.00
ATOM 628	1HD1	LEU A	45	153.921	7.371	-9.306	1.00	0.00
ATOM 629	2HD1	LEU A	45	155.564	7.011	-9.837	1.00	0.00
ATOM 630	3HD1	LEU A	45	154.305	7.341	-11.027	1.00	0.00
ATOM 631	1HD2	LEU A	45	156.910	9.685	-10.787	1.00	0.00
ATOM 632	2HD2	LEU A	45	156.998	8.336	-9.654	1.00	0.00
ATOM 633	3HD2	LEU A	45	156.721	9.971	-9.058	1.00	0.00
ATOM 634	N	ASN A	46	152.171	12.413	-10.762	1.00	0.00
ATOM 635	CA	ASN A	46	150.957	12.758	-10.038	1.00	0.00
ATOM 636	C	ASN A	46	149.995	11.576	-10.017	1.00	0.00
ATOM 637	O	ASN A	46	149.389	11.234	-11.033	1.00	0.00
ATOM 638	CB	ASN A	46	150.283	13.971	-10.685	1.00	0.00
ATOM 639	CG	ASN A	46	149.129	14.503	-9.860	1.00	0.00
ATOM 640	OD1	ASN A	46	149.303	15.398	-9.032	1.00	0.00
ATOM 641	ND2	ASN A	46	147.939	13.956	-10.083	1.00	0.00
ATOM 642	H	ASN A	46	152.322	12.784	-11.656	1.00	0.00
ATOM 643	HA	ASN A	46	151.230	13.006	-9.024	1.00	0.00
ATOM 644	1HB	ASN A	46	151.012	14.760	-10.801	1.00	0.00
ATOM 645	2HB	ASN A	46	149.907	13.689	-11.658	1.00	0.00
ATOM 646	1HD2	ASN A	46	147.875	13.248	-10.758	1.00	0.00
ATOM 647	2HD2	ASN A	46	147.175	14.280	-9.563	1.00	0.00
ATOM 648	N	GLU A	47	149.861	10.955	-8.851	1.00	0.00

ATOM 649	CA	GLU A	47	148.975	9.809	-8.688	1.00	0.00
ATOM 650	C	GLU A	47	148.762	9.496	-7.211	1.00	0.00
ATOM 651	O	GLU A	47	149.716	9.219	-6.485	1.00	0.00
ATOM 652	CB	GLU A	47	149.547	8.583	-9.406	1.00	0.00
ATOM 653	CG	GLU A	47	151.060	8.458	-9.295	1.00	0.00
ATOM 654	CD	GLU A	47	151.638	7.490	-10.309	1.00	0.00
ATOM 655	OE1	GLU A	47	151.922	6.334	-9.932	1.00	0.00
ATOM 656	OE2	GLU A	47	151.808	7.889	-11.480	1.00	0.00
ATOM 657	H	GLU A	47	150.372	11.276	-8.079	1.00	0.00
ATOM 658	HA	GLU A	47	148.023	10.062	-9.131	1.00	0.00
ATOM 659	1HB	GLU A	47	149.103	7.694	-8.983	1.00	0.00
ATOM 660	2HB	GLU A	47	149.288	8.642	-10.453	1.00	0.00
ATOM 661	1HG	GLU A	47	151.501	9.430	-9.457	1.00	0.00
ATOM 662	2HG	GLU A	47	151.309	8.110	-8.304	1.00	0.00
ATOM 663	N	VAL A	48	147.509	9.531	-6.773	1.00	0.00
ATOM 664	CA	VAL A	48	147.186	9.241	-5.382	1.00	0.00
ATOM 665	C	VAL A	48	147.515	7.792	-5.045	1.00	0.00
ATOM 666	O	VAL A	48	146.778	6.877	-5.410	1.00	0.00
ATOM 667	CB	VAL A	48	145.699	9.505	-5.081	1.00	0.00
ATOM 668	CG1	VAL A	48	145.426	9.387	-3.590	1.00	0.00
ATOM 669	CG2	VAL A	48	145.284	10.873	-5.601	1.00	0.00
ATOM 670	H	VAL A	48	146.787	9.752	-7.398	1.00	0.00
ATOM 671	HA	VAL A	48	147.782	9.891	-4.757	1.00	0.00
ATOM 672	HB	VAL A	48	145.111	8.756	-5.592	1.00	0.00
ATOM 673	1HG1	VAL A	48	144.434	9.758	-3.376	1.00	0.00
ATOM 674	2HG1	VAL A	48	146.154	9.968	-3.043	1.00	0.00
ATOM 675	3HG1	VAL A	48	145.495	8.351	-3.292	1.00	0.00
ATOM 676	1HG2	VAL A	48	144.342	11.156	-5.156	1.00	0.00
ATOM 677	2HG2	VAL A	48	145.178	10.833	-6.675	1.00	0.00

ATOM 678	3HG2	VAL A	48	146.038	11.600	-5.341	1.00	0.00
ATOM 679	N	LEU A	49	148.629	7.589	-4.349	1.00	0.00
ATOM 680	CA	LEU A	49	149.057	6.249	-3.967	1.00	0.00
ATOM 681	C	LEU A	49	148.869	6.026	-2.472	1.00	0.00
ATOM 682	O	LEU A	49	149.509	6.684	-1.651	1.00	0.00
ATOM 683	CB	LEU A	49	150.523	6.031	-4.347	1.00	0.00
ATOM 684	CG	LEU A	49	150.819	6.092	-5.846	1.00	0.00
ATOM 685	CD1	LEU A	49	152.276	6.456	-6.088	1.00	0.00
ATOM 686	CD2	LEU A	49	150.482	4.765	-6.509	1.00	0.00
ATOM 687	H	LEU A	49	149.177	8.359	-4.087	1.00	0.00
ATOM 688	HA	LEU A	49	148.446	5.541	-4.504	1.00	0.00
ATOM 689	1HB	LEU A	49	151.117	6.786	-3.852	1.00	0.00
ATOM 690	2HB	LEU A	49	150.827	5.062	-3.982	1.00	0.00
ATOM 691	HG	LEU A	49	150.205	6.858	-6.297	1.00	0.00
ATOM 692	1HD1	LEU A	49	152.360	7.015	-7.007	1.00	0.00
ATOM 693	2HD1	LEU A	49	152.865	5.554	-6.159	1.00	0.00
ATOM 694	3HD1	LEU A	49	152.637	7.058	-5.267	1.00	0.00
ATOM 695	1HD2	LEU A	49	150.448	4.896	-7.581	1.00	0.00
ATOM 696	2HD2	LEU A	49	149.520	4.421	-6.158	1.00	0.00
ATOM 697	3HD2	LEU A	49	151.238	4.035	-6.260	1.00	0.00
ATOM 698	N	ALA A	50	147.987	5.096	-2.125	1.00	0.00
ATOM 699	CA	ALA A	50	147.717	4.789	-0.728	1.00	0.00
ATOM 700	C	ALA A	50	148.598	3.644	-0.237	1.00	0.00
ATOM 701	O	ALA A	50	148.479	2.512	-0.706	1.00	0.00
ATOM 702	CB	ALA A	50	146.247	4.448	-0.537	1.00	0.00
ATOM 703	H	ALA A	50	147.508	4.605	-2.825	1.00	0.00
ATOM 704	HA	ALA A	50	147.937	5.673	-0.148	1.00	0.00
ATOM 705	1HB	ALA A	50	145.886	4.911	0.370	1.00	0.00
ATOM 706	2HB	ALA A	50	146.132	3.376	-0.464	1.00	0.00

ATOM 707	3HB	ALA A	50	145.680	4.814	-1.379	1.00	0.00
ATOM 708	N	GLY A	51	149.481	3.945	0.709	1.00	0.00
ATOM 709	CA	GLY A	51	150.367	2.930	1.246	1.00	0.00
ATOM 710	C	GLY A	51	149.616	1.834	1.976	1.00	0.00
ATOM 711	O	GLY A	51	148.873	2.103	2.919	1.00	0.00
ATOM 712	H	GLY A	51	149.530	4.865	1.045	1.00	0.00
ATOM 713	1HA	GLY A	51	150.925	2.489	0.434	1.00	0.00
ATOM 714	2HA	GLY A	51	151.057	3.397	1.933	1.00	0.00
ATOM 715	N	LEU A	52	149.809	0.594	1.540	1.00	0.00
ATOM 716	CA	LEU A	52	149.144	-0.547	2.159	1.00	0.00
ATOM 717	C	LEU A	52	150.156	-1.473	2.823	1.00	0.00
ATOM 718	O	LEU A	52	151.152	-1.862	2.211	1.00	0.00
ATOM 719	CB	LEU A	52	148.334	-1.320	1.116	1.00	0.00
ATOM 720	CG	LEU A	52	147.158	-0.552	0.509	1.00	0.00
ATOM 721	CD1	LEU A	52	146.691	-1.219	-0.775	1.00	0.00
ATOM 722	CD2	LEU A	52	146.015	-0.455	1.508	1.00	0.00
ATOM 723	H	LEU A	52	150.414	0.442	0.783	1.00	0.00
ATOM 724	HA	LEU A	52	148.472	-0.168	2.914	1.00	0.00
ATOM 725	1HB	LEU A	52	149.000	-1.608	0.316	1.00	0.00
ATOM 726	2HB	LEU A	52	147.948	-2.214	1.581	1.00	0.00
ATOM 727	HG	LEU A	52	147.479	0.452	0.266	1.00	0.00
ATOM 728	1HD1	LEU A	52	146.196	-0.491	-1.400	1.00	0.00
ATOM 729	2HD1	LEU A	52	146.003	-2.017	-0.536	1.00	0.00
ATOM 730	3HD1	LEU A	52	147.543	-1.625	-1.300	1.00	0.00
ATOM 731	1HD2	LEU A	52	145.635	-1.444	1.717	1.00	0.00
ATOM 732	2HD2	LEU A	52	145.226	0.155	1.093	1.00	0.00
ATOM 733	3HD2	LEU A	52	146.373	-0.006	2.423	1.00	0.00
ATOM 734	N	GLU A	53	149.896	-1.824	4.078	1.00	0.00
ATOM 735	CA	GLU A	53	150.785	-2.704	4.826	1.00	0.00

ATOM 736	C	GLU A	53	150.228	-4.123	4.878	1.00	0.00
ATOM 737	O	GLU A	53	149.272	-4.398	5.604	1.00	0.00
ATOM 738	CB	GLU A	53	150.991	-2.171	6.245	1.00	0.00
ATOM 739	CG	GLU A	53	151.929	-3.022	7.085	1.00	0.00
ATOM 740	CD	GLU A	53	151.460	-3.163	8.521	1.00	0.00
ATOM 741	OE1	GLU A	53	150.529	-3.960	8.765	1.00	0.00
ATOM 742	OE2	GLU A	53	152.022	-2.475	9.399	1.00	0.00
ATOM 743	H	GLU A	53	149.087	-1.481	4.512	1.00	0.00
ATOM 744	HA	GLU A	53	151.738	-2.724	4.317	1.00	0.00
ATOM 745	1HB	GLU A	53	151.400	-1.173	6.186	1.00	0.00
ATOM 746	2HB	GLU A	53	150.034	-2.128	6.743	1.00	0.00
ATOM 747	1HG	GLU A	53	151.992	-4.006	6.646	1.00	0.00
ATOM 748	2HG	GLU A	53	152.908	-2.565	7.085	1.00	0.00
ATOM 749	N	LEU A	54	150.831	-5.020	4.106	1.00	0.00
ATOM 750	CA	LEU A	54	150.395	-6.411	4.066	1.00	0.00
ATOM 751	C	LEU A	54	150.670	-7.106	5.395	1.00	0.00
ATOM 752	O	LEU A	54	151.717	-6.900	6.009	1.00	0.00
ATOM 753	CB	LEU A	54	151.101	-7.155	2.930	1.00	0.00
ATOM 754	CG	LEU A	54	151.009	-6.482	1.560	1.00	0.00
ATOM 755	CD1	LEU A	54	152.142	-6.950	0.659	1.00	0.00
ATOM 756	CD2	LEU A	54	149.661	-6.766	0.916	1.00	0.00
ATOM 757	H	LEU A	54	151.588	-4.741	3.550	1.00	0.00
ATOM 758	HA	LEU A	54	149.331	-6.419	3.882	1.00	0.00
ATOM 759	1HB	LEU A	54	152.144	-7.259	3.190	1.00	0.00
ATOM 760	2HB	LEU A	54	150.668	-8.141	2.850	1.00	0.00
ATOM 761	HG	LEU A	54	151.103	-5.412	1.685	1.00	0.00
ATOM 762	1HD1	LEU A	54	152.417	-7.961	0.921	1.00	0.00
ATOM 763	2HD1	LEU A	54	152.995	-6.300	0.787	1.00	0.00
ATOM 764	3HD1	LEU A	54	151.818	-6.920	-0.371	1.00	0.00

ATOM 765	1HD2	LEU A	54	149.379	-5.934	0.288	1.00	0.00
ATOM 766	2HD2	LEU A	54	148.916	-6.904	1.686	1.00	0.00
ATOM 767	3HD2	LEU A	54	149.729	-7.662	0.316	1.00	0.00
ATOM 768	N	GLU A	55	149.724	-7.930	5.832	1.00	0.00
ATOM 769	CA	GLU A	55	149.864	-8.657	7.089	1.00	0.00
ATOM 770	C	GLU A	55	150.994	-9.678	7.005	1.00	0.00
ATOM 771	O	GLU A	55	151.789	-9.818	7.934	1.00	0.00
ATOM 772	CB	GLU A	55	148.553	-9.359	7.446	1.00	0.00
ATOM 773	CG	GLU A	55	147.334	-8.455	7.347	1.00	0.00
ATOM 774	CD	GLU A	55	146.084	-9.100	7.915	1.00	0.00
ATOM 775	OE1	GLU A	55	145.229	-8.364	8.452	1.00	0.00
ATOM 776	OE2	GLU A	55	145.960	-10.339	7.820	1.00	0.00
ATOM 777	H	GLU A	55	148.912	-8.054	5.297	1.00	0.00
ATOM 778	HA	GLU A	55	150.100	-7.940	7.861	1.00	0.00
ATOM 779	1HB	GLU A	55	148.411	-10.194	6.777	1.00	0.00
ATOM 780	2HB	GLU A	55	148.619	-9.728	8.459	1.00	0.00
ATOM 781	1HG	GLU A	55	147.531	-7.545	7.893	1.00	0.00
ATOM 782	2HG	GLU A	55	147.160	-8.221	6.307	1.00	0.00
ATOM 783	N	ASP A	56	151.058	-10.392	5.886	1.00	0.00
ATOM 784	CA	ASP A	56	152.090	-11.401	5.680	1.00	0.00
ATOM 785	C	ASP A	56	153.367	-10.771	5.130	1.00	0.00
ATOM 786	O	ASP A	56	153.327	-10.001	4.171	1.00	0.00
ATOM 787	CB	ASP A	56	151.590	-12.485	4.723	1.00	0.00
ATOM 788	CG	ASP A	56	150.920	-13.634	5.451	1.00	0.00
ATOM 789	OD1	ASP A	56	151.503	-14.134	6.435	1.00	0.00
ATOM 790	OD2	ASP A	56	149.812	-14.033	5.037	1.00	0.00
ATOM 791	H	ASP A	56	150.396	-10.235	5.180	1.00	0.00
ATOM 792	HA	ASP A	56	152.308	-11.851	6.636	1.00	0.00
ATOM 793	1HB	ASP A	56	150.875	-12.051	4.039	1.00	0.00

ATOM 794	2HB	ASP A	56	152.426	-12.876	4.163	1.00	0.00
ATOM 795	N	GLU A	57	154.497	-11.105	5.745	1.00	0.00
ATOM 796	CA	GLU A	57	155.785	-10.572	5.317	1.00	0.00
ATOM 797	C	GLU A	57	156.231	-11.213	4.006	1.00	0.00
ATOM 798	O	GLU A	57	156.596	-12.388	3.971	1.00	0.00
ATOM 799	CB	GLU A	57	156.843	-10.807	6.398	1.00	0.00
ATOM 800	CG	GLU A	57	156.548	-10.088	7.703	1.00	0.00
ATOM 801	CD	GLU A	57	157.377	-10.615	8.859	1.00	0.00
ATOM 802	OE1	GLU A	57	158.607	-10.399	8.853	1.00	0.00
ATOM 803	OE2	GLU A	57	156.796	-11.244	9.768	1.00	0.00
ATOM 804	H	GLU A	57	154.464	-11.724	6.504	1.00	0.00
ATOM 805	HA	GLU A	57	155.670	-9.510	5.163	1.00	0.00
ATOM 806	1HB	GLU A	57	156.905	-11.866	6.600	1.00	0.00
ATOM 807	2HB	GLU A	57	157.798	-10.463	6.029	1.00	0.00
ATOM 808	1HG	GLU A	57	156.762	-9.037	7.578	1.00	0.00
ATOM 809	2HG	GLU A	57	155.503	-10.216	7.942	1.00	0.00
ATOM 810	N	CYS A	58	156.196	-10.433	2.931	1.00	0.00
ATOM 811	CA	CYS A	58	156.596	-10.925	1.617	1.00	0.00
ATOM 812	C	CYS A	58	158.001	-10.450	1.263	1.00	0.00
ATOM 813	O	CYS A	58	158.351	-9.292	1.492	1.00	0.00
ATOM 814	CB	CYS A	58	155.603	-10.459	0.552	1.00	0.00
ATOM 815	SG	CYS A	58	154.230	-11.601	0.272	1.00	0.00
ATOM 816	H	CYS A	58	155.895	-9.505	3.023	1.00	0.00
ATOM 817	HA	CYS A	58	156.592	-12.004	1.652	1.00	0.00
ATOM 818	1HB	CYS A	58	155.184	-9.509	0.851	1.00	0.00
ATOM 819	2HB	CYS A	58	156.125	-10.335	-0.387	1.00	0.00
ATOM 820	HG	CYS A	58	153.489	-11.095	-0.071	1.00	0.00
ATOM 821	N	ALA A	59	158.801	-11.350	0.702	1.00	0.00
ATOM 822	CA	ALA A	59	160.167	-11.022	0.315	1.00	0.00

ATOM 823	C	ALA A	59	160.187	-10.082	-0.886	1.00	0.00
ATOM 824	O	ALA A	59	159.903	-10.491	-2.012	1.00	0.00
ATOM 825	CB	ALA A	59	160.947	-12.292	0.005	1.00	0.00
ATOM 826	H	ALA A	59	158.463	-12.256	0.544	1.00	0.00
ATOM 827	HA	ALA A	59	160.643	-10.532	1.152	1.00	0.00
ATOM 828	1HB	ALA A	59	161.958	-12.193	0.372	1.00	0.00
ATOM 829	2HB	ALA A	59	160.965	-12.452	-1.062	1.00	0.00
ATOM 830	3HB	ALA A	59	160.471	-13.132	0.488	1.00	0.00
ATOM 831	N	GLY A	60	160.524	-8.821	-0.637	1.00	0.00
ATOM 832	CA	GLY A	60	160.574	-7.842	-1.708	1.00	0.00
ATOM 833	C	GLY A	60	159.929	-6.525	-1.320	1.00	0.00
ATOM 834	O	GLY A	60	160.307	-5.469	-1.827	1.00	0.00
ATOM 835	H	GLY A	60	160.739	-8.552	0.281	1.00	0.00
ATOM 836	1HA	GLY A	60	161.607	-7.662	-1.967	1.00	0.00
ATOM 837	2HA	GLY A	60	160.061	-8.241	-2.570	1.00	0.00
ATOM 838	N	CYS A	61	158.954	-6.589	-0.420	1.00	0.00
ATOM 839	CA	CYS A	61	158.255	-5.393	0.035	1.00	0.00
ATOM 840	C	CYS A	61	159.192	-4.483	0.823	1.00	0.00
ATOM 841	O	CYS A	61	160.303	-4.876	1.177	1.00	0.00
ATOM 842	CB	CYS A	61	157.052	-5.777	0.899	1.00	0.00
ATOM 843	SG	CYS A	61	155.952	-6.992	0.134	1.00	0.00
ATOM 844	H	CYS A	61	158.697	-7.461	-0.053	1.00	0.00
ATOM 845	HA	CYS A	61	157.905	-4.861	-0.838	1.00	0.00
ATOM 846	1HB	CYS A	61	157.405	-6.194	1.830	1.00	0.00
ATOM 847	2HB	CYS A	61	156.470	-4.890	1.106	1.00	0.00
ATOM 848	HG	CYS A	61	156.418	-7.831	0.095	1.00	0.00
ATOM 849	N	THR A	62	158.734	-3.265	1.096	1.00	0.00
ATOM 850	CA	THR A	62	159.531	-2.299	1.842	1.00	0.00
ATOM 851	C	THR A	62	159.054	-2.201	3.287	1.00	0.00

ATOM 852	O	THR A	62	158.129	-2.903	3.695	1.00	0.00
ATOM 853	CB	THR A	62	159.461	-0.924	1.175	1.00	0.00
ATOM 854	OG1	THR A	62	158.186	-0.714	0.595	1.00	0.00
ATOM 855	CG2	THR A	62	160.497	-0.732	0.089	1.00	0.00
ATOM 856	H	THR A	62	157.840	-3.010	0.786	1.00	0.00
ATOM 857	HA	THR A	62	160.556	-2.640	1.836	1.00	0.00
ATOM 858	HB	THR A	62	159.622	-0.163	1.925	1.00	0.00
ATOM 859	HG1	THR A	62	157.729	-0.016	1.070	1.00	0.00
ATOM 860	1HG2	THR A	62	161.485	-0.763	0.525	1.00	0.00
ATOM 861	2HG2	THR A	62	160.344	0.224	-0.389	1.00	0.00
ATOM 862	3HG2	THR A	62	160.402	-1.520	-0.643	1.00	0.00
ATOM 863	N	ASP A	63	159.692	-1.326	4.058	1.00	0.00
ATOM 864	CA	ASP A	63	159.332	-1.135	5.458	1.00	0.00
ATOM 865	C	ASP A	63	158.683	0.228	5.672	1.00	0.00
ATOM 866	O	ASP A	63	158.810	0.827	6.741	1.00	0.00
ATOM 867	CB	ASP A	63	160.569	-1.269	6.347	1.00	0.00
ATOM 868	CG	ASP A	63	161.735	-0.442	5.843	1.00	0.00
ATOM 869	OD1	ASP A	63	162.877	-0.947	5.871	1.00	0.00
ATOM 870	OD2	ASP A	63	161.506	0.712	5.422	1.00	0.00
ATOM 871	H	ASP A	63	160.421	-0.794	3.675	1.00	0.00
ATOM 872	HA	ASP A	63	158.622	-1.904	5.725	1.00	0.00
ATOM 873	1HB	ASP A	63	160.325	-0.942	7.346	1.00	0.00
ATOM 874	2HB	ASP A	63	160.873	-2.306	6.376	1.00	0.00
ATOM 875	N	GLY A	64	157.987	0.715	4.650	1.00	0.00
ATOM 876	CA	GLY A	64	157.329	2.004	4.747	1.00	0.00
ATOM 877	C	GLY A	64	158.059	3.087	3.979	1.00	0.00
ATOM 878	O	GLY A	64	158.181	4.218	4.451	1.00	0.00
ATOM 879	H	GLY A	64	157.919	0.194	3.823	1.00	0.00
ATOM 880	1HA	GLY A	64	156.326	1.914	4.357	1.00	0.00

ATOM 881	2HA	GLY A	64	157.274	2.291	5.788	1.00	0.00
ATOM 882	N	THR A	65	158.544	2.743	2.791	1.00	0.00
ATOM 883	CA	THR A	65	159.266	3.694	1.954	1.00	0.00
ATOM 884	C	THR A	65	158.921	3.495	0.482	1.00	0.00
ATOM 885	O	THR A	65	158.995	2.381	-0.038	1.00	0.00
ATOM 886	CB	THR A	65	160.775	3.546	2.161	1.00	0.00
ATOM 887	OG1	THR A	65	161.186	2.213	1.916	1.00	0.00
ATOM 888	CG2	THR A	65	161.226	3.917	3.557	1.00	0.00
ATOM 889	H	THR A	65	158.415	1.826	2.469	1.00	0.00
ATOM 890	HA	THR A	65	158.967	4.689	2.250	1.00	0.00
ATOM 891	HB	THR A	65	161.288	4.194	1.466	1.00	0.00
ATOM 892	HG1	THR A	65	160.799	1.905	1.093	1.00	0.00
ATOM 893	1HG2	THR A	65	160.492	4.565	4.014	1.00	0.00
ATOM 894	2HG2	THR A	65	162.175	4.430	3.505	1.00	0.00
ATOM 895	3HG2	THR A	65	161.333	3.021	4.151	1.00	0.00
ATOM 896	N	PHE A	66	158.545	4.581	-0.185	1.00	0.00
ATOM 897	CA	PHE A	66	158.189	4.526	-1.598	1.00	0.00
ATOM 898	C	PHE A	66	159.244	5.221	-2.452	1.00	0.00
ATOM 899	O	PHE A	66	159.348	6.447	-2.453	1.00	0.00
ATOM 900	CB	PHE A	66	156.822	5.175	-1.826	1.00	0.00
ATOM 901	CG	PHE A	66	156.219	4.847	-3.162	1.00	0.00
ATOM 902	CD1	PHE A	66	156.098	3.531	-3.579	1.00	0.00
ATOM 903	CD2	PHE A	66	155.771	5.856	-4.001	1.00	0.00
ATOM 904	CE1	PHE A	66	155.543	3.227	-4.808	1.00	0.00
ATOM 905	CE2	PHE A	66	155.215	5.557	-5.231	1.00	0.00
ATOM 906	CZ	PHE A	66	155.101	4.241	-5.635	1.00	0.00
ATOM 907	H	PHE A	66	158.506	5.440	0.285	1.00	0.00
ATOM 908	HA	PHE A	66	158.136	3.486	-1.886	1.00	0.00
ATOM 909	1HB	PHE A	66	156.139	4.837	-1.062	1.00	0.00

ATOM 910	2HB	PHE	A	66	156.926	6.248	-1.761	1.00	0.00
ATOM 911	HD1	PHE	A	66	156.443	2.737	-2.934	1.00	0.00
ATOM 912	HD2	PHE	A	66	155.860	6.885	-3.686	1.00	0.00
ATOM 913	HE1	PHE	A	66	155.456	2.198	-5.121	1.00	0.00
ATOM 914	HE2	PHE	A	66	154.871	6.352	-5.875	1.00	0.00
ATOM 915	HZ	PHE	A	66	154.666	4.007	-6.595	1.00	0.00
ATOM 916	N	ARG	A	67	160.023	4.428	-3.181	1.00	0.00
ATOM 917	CA	ARG	A	67	161.070	4.967	-4.042	1.00	0.00
ATOM 918	C	ARG	A	67	162.093	5.754	-3.228	1.00	0.00
ATOM 919	O	ARG	A	67	162.571	6.803	-3.660	1.00	0.00
ATOM 920	CB	ARG	A	67	160.460	5.864	-5.121	1.00	0.00
ATOM 921	CG	ARG	A	67	159.253	5.250	-5.812	1.00	0.00
ATOM 922	CD	ARG	A	67	158.944	5.953	-7.123	1.00	0.00
ATOM 923	NE	ARG	A	67	157.578	5.696	-7.573	1.00	0.00
ATOM 924	CZ	ARG	A	67	157.193	4.569	-8.167	1.00	0.00
ATOM 925	NH1	ARG	A	67	158.066	3.594	-8.385	1.00	0.00
ATOM 926	NH2	ARG	A	67	155.931	4.416	-8.545	1.00	0.00
ATOM 927	H	ARG	A	67	159.891	3.458	-3.140	1.00	0.00
ATOM 928	HA	ARG	A	67	161.568	4.136	-4.517	1.00	0.00
ATOM 929	1HB	ARG	A	67	160.153	6.796	-4.668	1.00	0.00
ATOM 930	2HB	ARG	A	67	161.210	6.068	-5.869	1.00	0.00
ATOM 931	1HG	ARG	A	67	159.457	4.208	-6.013	1.00	0.00
ATOM 932	2HG	ARG	A	67	158.397	5.331	-5.158	1.00	0.00
ATOM 933	1HD	ARG	A	67	159.073	7.017	-6.985	1.00	0.00
ATOM 934	2HD	ARG	A	67	159.634	5.603	-7.876	1.00	0.00
ATOM 935	HE	ARG	A	67	156.913	6.401	-7.425	1.00	0.00
ATOM 936	1HH1	ARG	A	67	159.019	3.702	-8.102	1.00	0.00
ATOM 937	2HH1	ARG	A	67	157.771	2.749	-8.832	1.00	0.00
ATOM 938	1HH2	ARG	A	67	155.268	5.148	-8.383	1.00	0.00

ATOM 939	2HH2	ARG A	67	155.642	3.570	-8.992	1.00	0.00
ATOM 940	N	GLY A	68	162.423	5.240	-2.048	1.00	0.00
ATOM 941	CA	GLY A	68	163.387	5.909	-1.192	1.00	0.00
ATOM 942	C	GLY A	68	162.806	7.129	-0.505	1.00	0.00
ATOM 943	O	GLY A	68	163.530	8.071	-0.184	1.00	0.00
ATOM 944	H	GLY A	68	162.009	4.402	-1.755	1.00	0.00
ATOM 945	1HA	GLY A	68	163.726	5.212	-0.440	1.00	0.00
ATOM 946	2HA	GLY A	68	164.232	6.214	-1.791	1.00	0.00
ATOM 947	N	THR A	69	161.497	7.111	-0.279	1.00	0.00
ATOM 948	CA	THR A	69	160.818	8.224	0.375	1.00	0.00
ATOM 949	C	THR A	69	159.927	7.727	1.509	1.00	0.00
ATOM 950	O	THR A	69	158.778	7.344	1.285	1.00	0.00
ATOM 951	CB	THR A	69	159.985	9.007	-0.640	1.00	0.00
ATOM 952	OG1	THR A	69	160.757	9.328	-1.783	1.00	0.00
ATOM 953	CG2	THR A	69	159.427	10.300	-0.085	1.00	0.00
ATOM 954	H	THR A	69	160.974	6.330	-0.558	1.00	0.00
ATOM 955	HA	THR A	69	161.575	8.876	0.786	1.00	0.00
ATOM 956	HB	THR A	69	159.152	8.396	-0.954	1.00	0.00
ATOM 957	HG1	THR A	69	161.481	9.905	-1.529	1.00	0.00
ATOM 958	1HG2	THR A	69	160.229	11.013	0.043	1.00	0.00
ATOM 959	2HG2	THR A	69	158.958	10.110	0.869	1.00	0.00
ATOM 960	3HG2	THR A	69	158.696	10.701	-0.772	1.00	0.00
ATOM 961	N	ARG A	70	160.463	7.737	2.725	1.00	0.00
ATOM 962	CA	ARG A	70	159.714	7.288	3.893	1.00	0.00
ATOM 963	C	ARG A	70	158.456	8.127	4.089	1.00	0.00
ATOM 964	O	ARG A	70	158.505	9.357	4.042	1.00	0.00
ATOM 965	CB	ARG A	70	160.591	7.360	5.145	1.00	0.00
ATOM 966	CG	ARG A	70	159.921	6.798	6.388	1.00	0.00
ATOM 967	CD	ARG A	70	160.262	7.616	7.624	1.00	0.00

ATOM 968	NE	ARG A	70	161.583	7.285	8.153	1.00	0.00
ATOM 969	CZ	ARG A	70	161.985	7.587	9.384	1.00	0.00
ATOM 970	NH1	ARG A	70	161.174	8.226	10.218	1.00	0.00
ATOM 971	NH2	ARG A	70	163.204	7.249	9.785	1.00	0.00
ATOM 972	H	ARG A	70	161.383	8.055	2.839	1.00	0.00
ATOM 973	HA	ARG A	70	159.425	6.262	3.725	1.00	0.00
ATOM 974	1HB	ARG A	70	161.498	6.802	4.968	1.00	0.00
ATOM 975	2HB	ARG A	70	160.844	8.393	5.333	1.00	0.00
ATOM 976	1HG	ARG A	70	158.851	6.810	6.246	1.00	0.00
ATOM 977	2HG	ARG A	70	160.254	5.782	6.537	1.00	0.00
ATOM 978	1HD	ARG A	70	160.242	8.664	7.362	1.00	0.00
ATOM 979	2HD	ARG A	70	159.520	7.421	8.385	1.00	0.00
ATOM 980	HE	ARG A	70	162.202	6.813	7.558	1.00	0.00
ATOM 981	1HH1	ARG A	70	160.255	8.484	9.923	1.00	0.00
ATOM 982	2HH1	ARG A	70	161.483	8.450	11.143	1.00	0.00
ATOM 983	1HH2	ARG A	70	163.819	6.766	9.161	1.00	0.00
ATOM 984	2HH2	ARG A	70	163.506	7.476	10.710	1.00	0.00
ATOM 985	N	TYR A	71	157.331	7.456	4.312	1.00	0.00
ATOM 986	CA	TYR A	71	156.060	8.139	4.517	1.00	0.00
ATOM 987	C	TYR A	71	155.495	7.835	5.900	1.00	0.00
ATOM 988	O	TYR A	71	154.967	8.719	6.574	1.00	0.00
ATOM 989	CB	TYR A	71	155.055	7.724	3.441	1.00	0.00
ATOM 990	CG	TYR A	71	155.279	8.403	2.108	1.00	0.00
ATOM 991	CD1	TYR A	71	155.301	7.670	0.928	1.00	0.00
ATOM 992	CD2	TYR A	71	155.468	9.777	2.029	1.00	0.00
ATOM 993	CE1	TYR A	71	155.505	8.285	-0.292	1.00	0.00
ATOM 994	CE2	TYR A	71	155.673	10.400	0.813	1.00	0.00
ATOM 995	CZ	TYR A	71	155.691	9.650	-0.344	1.00	0.00
ATOM 996	OH	TYR A	71	155.894	10.268	-1.557	1.00	0.00

ATOM 997	H	TYR A	71	157.357	6.477	4.339	1.00	0.00
ATOM 998	HA	TYR A	71	156.238	9.202	4.440	1.00	0.00
ATOM 999	1HB	TYR A	71	155.124	6.659	3.285	1.00	0.00
ATOM 1000	2HB	TYR A	71	154.058	7.970	3.776	1.00	0.00
ATOM 1001	HD1	TYR A	71	155.154	6.600	0.972	1.00	0.00
ATOM 1002	HD2	TYR A	71	155.455	10.361	2.938	1.00	0.00
ATOM 1003	HE1	TYR A	71	155.518	7.697	-1.198	1.00	0.00
ATOM 1004	HE2	TYR A	71	155.819	11.470	0.773	1.00	0.00
ATOM 1005	HH	TYR A	71	155.302	9.892	-2.211	1.00	0.00
ATOM 1006	N	PHE A	72	155.611	6.579	6.318	1.00	0.00
ATOM 1007	CA	PHE A	72	155.112	6.157	7.621	1.00	0.00
ATOM 1008	C	PHE A	72	156.066	5.160	8.272	1.00	0.00
ATOM 1009	O	PHE A	72	157.112	4.833	7.714	1.00	0.00
ATOM 1010	CB	PHE A	72	153.722	5.534	7.482	1.00	0.00
ATOM 1011	CG	PHE A	72	153.649	4.455	6.439	1.00	0.00
ATOM 1012	CD1	PHE A	72	153.791	3.123	6.790	1.00	0.00
ATOM 1013	CD2	PHE A	72	153.438	4.775	5.107	1.00	0.00
ATOM 1014	CE1	PHE A	72	153.725	2.128	5.833	1.00	0.00
ATOM 1015	CE2	PHE A	72	153.372	3.785	4.145	1.00	0.00
ATOM 1016	CZ	PHE A	72	153.514	2.459	4.509	1.00	0.00
ATOM 1017	H	PHE A	72	156.042	5.919	5.734	1.00	0.00
ATOM 1018	HA	PHE A	72	155.043	7.033	8.248	1.00	0.00
ATOM 1019	1HB	PHE A	72	153.433	5.101	8.427	1.00	0.00
ATOM 1020	2HB	PHE A	72	153.015	6.305	7.214	1.00	0.00
ATOM 1021	HD1	PHE A	72	153.956	2.862	7.826	1.00	0.00
ATOM 1022	HD2	PHE A	72	153.327	5.810	4.822	1.00	0.00
ATOM 1023	HE1	PHE A	72	153.837	1.093	6.120	1.00	0.00
ATOM 1024	HE2	PHE A	72	153.206	4.046	3.111	1.00	0.00
ATOM 1025	HZ	PHE A	72	153.462	1.684	3.759	1.00	0.00

ATOM 1026	N	THR A	73	155.696	4.680	9.455	1.00	0.00
ATOM 1027	CA	THR A	73	156.517	3.720	10.183	1.00	0.00
ATOM 1028	C	THR A	73	155.799	2.383	10.319	1.00	0.00
ATOM 1029	O	THR A	73	154.786	2.279	11.012	1.00	0.00
ATOM 1030	CB	THR A	73	156.871	4.267	11.568	1.00	0.00
ATOM 1031	OG1	THR A	73	157.291	5.617	11.483	1.00	0.00
ATOM 1032	CG2	THR A	73	157.970	3.486	12.256	1.00	0.00
ATOM 1033	H	THR A	73	154.849	4.980	9.849	1.00	0.00
ATOM 1034	HA	THR A	73	157.428	3.571	9.622	1.00	0.00
ATOM 1035	HB	THR A	73	155.992	4.223	12.195	1.00	0.00
ATOM 1036	HG1	THR A	73	157.505	5.942	12.360	1.00	0.00
ATOM 1037	1HG2	THR A	73	157.585	2.531	12.580	1.00	0.00
ATOM 1038	2HG2	THR A	73	158.323	4.041	13.112	1.00	0.00
ATOM 1039	3HG2	THR A	73	158.786	3.330	11.567	1.00	0.00
ATOM 1040	N	CYS A	74	156.329	1.361	9.655	1.00	0.00
ATOM 1041	CA	CYS A	74	155.737	0.029	9.702	1.00	0.00
ATOM 1042	C	CYS A	74	156.817	-1.040	9.840	1.00	0.00
ATOM 1043	O	CYS A	74	158.004	-0.730	9.941	1.00	0.00
ATOM 1044	CB	CYS A	74	154.907	-0.228	8.444	1.00	0.00
ATOM 1045	SG	CYS A	74	153.174	0.266	8.590	1.00	0.00
ATOM 1046	H	CYS A	74	157.138	1.507	9.120	1.00	0.00
ATOM 1047	HA	CYS A	74	155.091	-0.015	10.565	1.00	0.00
ATOM 1048	1HB	CYS A	74	155.336	0.323	7.619	1.00	0.00
ATOM 1049	2HB	CYS A	74	154.931	-1.283	8.216	1.00	0.00
ATOM 1050	HG	CYS A	74	152.822	0.378	7.704	1.00	0.00
ATOM 1051	N	ALA A	75	156.395	-2.300	9.846	1.00	0.00
ATOM 1052	CA	ALA A	75	157.325	-3.416	9.972	1.00	0.00
ATOM 1053	C	ALA A	75	158.145	-3.594	8.699	1.00	0.00
ATOM 1054	O	ALA A	75	158.032	-2.806	7.760	1.00	0.00

ATOM 1055	CB	ALA A	75	156.570	-4.697	10.298	1.00	0.00
ATOM 1056	H	ALA A	75	155.436	-2.485	9.762	1.00	0.00
ATOM 1057	HA	ALA A	75	157.993	-3.201	10.792	1.00	0.00
ATOM 1058	1HB	ALA A	75	157.083	-5.539	9.858	1.00	0.00
ATOM 1059	2HB	ALA A	75	155.569	-4.637	9.898	1.00	0.00
ATOM 1060	3HB	ALA A	75	156.524	-4.823	11.370	1.00	0.00
ATOM 1061	N	LEU A	76	158.971	-4.635	8.674	1.00	0.00
ATOM 1062	CA	LEU A	76	159.811	-4.917	7.515	1.00	0.00
ATOM 1063	C	LEU A	76	159.123	-5.895	6.570	1.00	0.00
ATOM 1064	O	LEU A	76	158.480	-6.849	7.006	1.00	0.00
ATOM 1065	CB	LEU A	76	161.160	-5.485	7.963	1.00	0.00
ATOM 1066	CG	LEU A	76	162.133	-4.460	8.547	1.00	0.00
ATOM 1067	CD1	LEU A	76	162.958	-5.082	9.663	1.00	0.00
ATOM 1068	CD2	LEU A	76	163.038	-3.905	7.458	1.00	0.00
ATOM 1069	H	LEU A	76	159.017	-5.228	9.452	1.00	0.00
ATOM 1070	HA	LEU A	76	159.978	-3.986	6.994	1.00	0.00
ATOM 1071	1HB	LEU A	76	160.975	-6.244	8.710	1.00	0.00
ATOM 1072	2HB	LEU A	76	161.631	-5.950	7.111	1.00	0.00
ATOM 1073	HG	LEU A	76	161.571	-3.638	8.968	1.00	0.00
ATOM 1074	1HD1	LEU A	76	163.035	-6.147	9.503	1.00	0.00
ATOM 1075	2HD1	LEU A	76	162.480	-4.894	10.612	1.00	0.00
ATOM 1076	3HD1	LEU A	76	163.947	-4.647	9.665	1.00	0.00
ATOM 1077	1HD2	LEU A	76	164.015	-3.701	7.871	1.00	0.00
ATOM 1078	2HD2	LEU A	76	162.614	-2.992	7.068	1.00	0.00
ATOM 1079	3HD2	LEU A	76	163.128	-4.628	6.661	1.00	0.00
ATOM 1080	N	LYS A	77	159.263	-5.652	5.270	1.00	0.00
ATOM 1081	CA	LYS A	77	158.655	-6.512	4.261	1.00	0.00
ATOM 1082	C	LYS A	77	157.137	-6.531	4.405	1.00	0.00
ATOM 1083	O	LYS A	77	156.502	-7.576	4.257	1.00	0.00

ATOM 1084	CB	LYS A	77	159.210	-7.934	4.373	1.00	0.00
ATOM 1085	CG	LYS A	77	160.709	-8.021	4.143	1.00	0.00
ATOM 1086	CD	LYS A	77	161.055	-7.890	2.668	1.00	0.00
ATOM 1087	CE	LYS A	77	162.333	-7.091	2.465	1.00	0.00
ATOM 1088	NZ	LYS A	77	162.972	-7.390	1.154	1.00	0.00
ATOM 1089	H	LYS A	77	159.788	-4.875	4.983	1.00	0.00
ATOM 1090	HA	LYS A	77	158.908	-6.113	3.291	1.00	0.00
ATOM 1091	1HB	LYS A	77	158.996	-8.315	5.361	1.00	0.00
ATOM 1092	2HB	LYS A	77	158.718	-8.558	3.642	1.00	0.00
ATOM 1093	1HG	LYS A	77	161.195	-7.226	4.688	1.00	0.00
ATOM 1094	2HG	LYS A	77	161.064	-8.976	4.502	1.00	0.00
ATOM 1095	1HD	LYS A	77	161.189	-8.876	2.250	1.00	0.00
ATOM 1096	2HD	LYS A	77	160.243	-7.389	2.161	1.00	0.00
ATOM 1097	1HE	LYS A	77	162.095	-6.038	2.507	1.00	0.00
ATOM 1098	2HE	LYS A	77	163.024	-7.335	3.258	1.00	0.00
ATOM 1099	1HZ	LYS A	77	162.327	-7.144	0.376	1.00	0.00
ATOM 1100	2HZ	LYS A	77	163.202	-8.403	1.090	1.00	0.00
ATOM 1101	3HZ	LYS A	77	163.849	-6.841	1.050	1.00	0.00
ATOM 1102	N	LYS A	78	156.560	-5.370	4.693	1.00	0.00
ATOM 1103	CA	LYS A	78	155.116	-5.253	4.857	1.00	0.00
ATOM 1104	C	LYS A	78	154.630	-3.873	4.421	1.00	0.00
ATOM 1105	O	LYS A	78	153.775	-3.271	5.071	1.00	0.00
ATOM 1106	CB	LYS A	78	154.723	-5.509	6.313	1.00	0.00
ATOM 1107	CG	LYS A	78	155.187	-6.857	6.841	1.00	0.00
ATOM 1108	CD	LYS A	78	154.862	-7.020	8.316	1.00	0.00
ATOM 1109	CE	LYS A	78	153.595	-7.837	8.520	1.00	0.00
ATOM 1110	NZ	LYS A	78	152.784	-7.328	9.660	1.00	0.00
ATOM 1111	H	LYS A	78	157.120	-4.572	4.799	1.00	0.00
ATOM 1112	HA	LYS A	78	154.650	-5.999	4.230	1.00	0.00

ATOM 1113	1HB	LYS A	78	155.154	-4.737	6.932	1.00	0.00
ATOM 1114	2HB	LYS A	78	153.648	-5.465	6.397	1.00	0.00
ATOM 1115	1HG	LYS A	78	154.694	-7.640	6.284	1.00	0.00
ATOM 1116	2HG	LYS A	78	156.256	-6.937	6.706	1.00	0.00
ATOM 1117	1HD	LYS A	78	155.684	-7.521	8.803	1.00	0.00
ATOM 1118	2HD	LYS A	78	154.723	-6.042	8.754	1.00	0.00
ATOM 1119	1HE	LYS A	78	153.003	-7.789	7.619	1.00	0.00
ATOM 1120	2HE	LYS A	78	153.872	-8.862	8.715	1.00	0.00
ATOM 1121	1HZ	LYS A	78	152.943	-6.307	9.784	1.00	0.00
ATOM 1122	2HZ	LYS A	78	153.051	-7.818	10.537	1.00	0.00
ATOM 1123	3HZ	LYS A	78	151.773	-7.491	9.480	1.00	0.00
ATOM 1124	N	ALA A	79	155.181	-3.379	3.318	1.00	0.00
ATOM 1125	CA	ALA A	79	154.803	-2.071	2.796	1.00	0.00
ATOM 1126	C	ALA A	79	154.667	-2.103	1.279	1.00	0.00
ATOM 1127	O	ALA A	79	155.662	-2.180	0.557	1.00	0.00
ATOM 1128	CB	ALA A	79	155.824	-1.022	3.215	1.00	0.00
ATOM 1129	H	ALA A	79	155.857	-3.906	2.844	1.00	0.00
ATOM 1130	HA	ALA A	79	153.850	-1.803	3.228	1.00	0.00
ATOM 1131	1HB	ALA A	79	155.952	-1.053	4.287	1.00	0.00
ATOM 1132	2HB	ALA A	79	155.475	-0.043	2.921	1.00	0.00
ATOM 1133	3HB	ALA A	79	156.768	-1.228	2.733	1.00	0.00
ATOM 1134	N	LEU A	80	153.429	-2.045	0.799	1.00	0.00
ATOM 1135	CA	LEU A	80	153.162	-2.068	-0.635	1.00	0.00
ATOM 1136	C	LEU A	80	152.294	-0.883	-1.044	1.00	0.00
ATOM 1137	O	LEU A	80	151.115	-0.813	-0.696	1.00	0.00
ATOM 1138	CB	LEU A	80	152.475	-3.378	-1.024	1.00	0.00
ATOM 1139	CG	LEU A	80	152.077	-3.487	-2.498	1.00	0.00
ATOM 1140	CD1	LEU A	80	153.312	-3.525	-3.383	1.00	0.00
ATOM 1141	CD2	LEU A	80	151.216	-4.721	-2.725	1.00	0.00

ATOM 1142	H	LEU A	80	152.678	-1.984	1.424	1.00	0.00
ATOM 1143	HA	LEU A	80	154.108	-2.001	-1.149	1.00	0.00
ATOM 1144	1HB	LEU A	80	153.144	-4.194	-0.792	1.00	0.00
ATOM 1145	2HB	LEU A	80	151.583	-3.485	-0.425	1.00	0.00
ATOM 1146	HG	LEU A	80	151.496	-2.618	-2.771	1.00	0.00
ATOM 1147	1HD1	LEU A	80	154.114	-2.982	-2.904	1.00	0.00
ATOM 1148	2HD1	LEU A	80	153.086	-3.068	-4.335	1.00	0.00
ATOM 1149	3HD1	LEU A	80	153.613	-4.550	-3.536	1.00	0.00
ATOM 1150	1HD2	LEU A	80	151.834	-5.604	-2.676	1.00	0.00
ATOM 1151	2HD2	LEU A	80	150.752	-4.660	-3.698	1.00	0.00
ATOM 1152	3HD2	LEU A	80	150.452	-4.773	-1.964	1.00	0.00
ATOM 1153	N	PHE A	81	152.886	0.049	-1.786	1.00	0.00
ATOM 1154	CA	PHE A	81	152.167	1.232	-2.243	1.00	0.00
ATOM 1155	C	PHE A	81	151.408	0.942	-3.534	1.00	0.00
ATOM 1156	O	PHE A	81	151.925	0.285	-4.437	1.00	0.00
ATOM 1157	CB	PHE A	81	153.139	2.393	-2.461	1.00	0.00
ATOM 1158	CG	PHE A	81	153.718	2.937	-1.186	1.00	0.00
ATOM 1159	CD1	PHE A	81	154.880	2.404	-0.654	1.00	0.00
ATOM 1160	CD2	PHE A	81	153.100	3.984	-0.521	1.00	0.00
ATOM 1161	CE1	PHE A	81	155.415	2.903	0.518	1.00	0.00
ATOM 1162	CE2	PHE A	81	153.630	4.488	0.653	1.00	0.00
ATOM 1163	CZ	PHE A	81	154.790	3.946	1.172	1.00	0.00
ATOM 1164	H	PHE A	81	153.828	-0.063	-2.032	1.00	0.00
ATOM 1165	HA	PHE A	81	151.458	1.506	-1.477	1.00	0.00
ATOM 1166	1HB	PHE A	81	153.957	2.058	-3.080	1.00	0.00
ATOM 1167	2HB	PHE A	81	152.621	3.198	-2.962	1.00	0.00
ATOM 1168	HD1	PHE A	81	155.371	1.588	-1.165	1.00	0.00
ATOM 1169	HD2	PHE A	81	152.193	4.409	-0.926	1.00	0.00
ATOM 1170	HE1	PHE A	81	156.321	2.477	0.923	1.00	0.00

ATOM 1171	HE2	PHE A	81	153.139	5.304	1.161	1.00	0.00
ATOM 1172	HZ	PHE A	81	155.206	4.337	2.088	1.00	0.00
ATOM 1173	N	VAL A	82	150.176	1.437	-3.615	1.00	0.00
ATOM 1174	CA	VAL A	82	149.347	1.232	-4.795	1.00	0.00
ATOM 1175	C	VAL A	82	148.458	2.442	-5.060	1.00	0.00
ATOM 1176	O	VAL A	82	148.317	3.319	-4.209	1.00	0.00
ATOM 1177	CB	VAL A	82	148.459	-0.019	-4.649	1.00	0.00
ATOM 1178	CG1	VAL A	82	149.301	-1.283	-4.728	1.00	0.00
ATOM 1179	CG2	VAL A	82	147.677	0.030	-3.346	1.00	0.00
ATOM 1180	H	VAL A	82	149.818	1.954	-2.863	1.00	0.00
ATOM 1181	HA	VAL A	82	150.001	1.086	-5.642	1.00	0.00
ATOM 1182	HB	VAL A	82	147.754	-0.032	-5.468	1.00	0.00
ATOM 1183	1HG1	VAL A	82	149.619	-1.442	-5.747	1.00	0.00
ATOM 1184	2HG1	VAL A	82	148.713	-2.128	-4.398	1.00	0.00
ATOM 1185	3HG1	VAL A	82	150.168	-1.179	-4.092	1.00	0.00
ATOM 1186	1HG2	VAL A	82	148.342	-0.166	-2.518	1.00	0.00
ATOM 1187	2HG2	VAL A	82	146.896	-0.717	-3.366	1.00	0.00
ATOM 1188	3HG2	VAL A	82	147.235	1.008	-3.228	1.00	0.00
ATOM 1189	N	LYS A	83	147.860	2.481	-6.246	1.00	0.00
ATOM 1190	CA	LYS A	83	146.984	3.584	-6.625	1.00	0.00
ATOM 1191	C	LYS A	83	145.701	3.570	-5.803	1.00	0.00
ATOM 1192	O	LYS A	83	144.952	2.594	-5.815	1.00	0.00
ATOM 1193	CB	LYS A	83	146.650	3.507	-8.115	1.00	0.00
ATOM 1194	CG	LYS A	83	147.877	3.518	-9.012	1.00	0.00
ATOM 1195	CD	LYS A	83	147.699	2.598	-10.210	1.00	0.00
ATOM 1196	CE	LYS A	83	148.182	3.252	-11.495	1.00	0.00
ATOM 1197	NZ	LYS A	83	149.098	2.362	-12.260	1.00	0.00
ATOM 1198	H	LYS A	83	148.011	1.751	-6.882	1.00	0.00
ATOM 1199	HA	LYS A	83	147.509	4.506	-6.432	1.00	0.00

ATOM 1200	1HB	LYS A	83	146.101	2.596	-8.302	1.00	0.00
ATOM 1201	2HB	LYS A	83	146.031	4.351	-8.378	1.00	0.00
ATOM 1202	1HG	LYS A	83	148.044	4.525	-9.365	1.00	0.00
ATOM 1203	2HG	LYS A	83	148.733	3.188	-8.440	1.00	0.00
ATOM 1204	1HD	LYS A	83	148.264	1.694	-10.044	1.00	0.00
ATOM 1205	2HD	LYS A	83	146.651	2.357	-10.311	1.00	0.00
ATOM 1206	1HE	LYS A	83	147.325	3.484	-12.111	1.00	0.00
ATOM 1207	2HE	LYS A	83	148.704	4.165	-11.247	1.00	0.00
ATOM 1208	1HZ	LYS A	83	148.594	1.502	-12.560	1.00	0.00
ATOM 1209	2HZ	LYS A	83	149.906	2.086	-11.667	1.00	0.00
ATOM 1210	3HZ	LYS A	83	149.455	2.855	-13.104	1.00	0.00
ATOM 1211	N	LEU A	84	145.454	4.663	-5.090	1.00	0.00
ATOM 1212	CA	LEU A	84	144.263	4.786	-4.260	1.00	0.00
ATOM 1213	C	LEU A	84	142.997	4.654	-5.102	1.00	0.00
ATOM 1214	O	LEU A	84	141.964	4.191	-4.618	1.00	0.00
ATOM 1215	CB	LEU A	84	144.267	6.130	-3.530	1.00	0.00
ATOM 1216	CG	LEU A	84	143.022	6.415	-2.687	1.00	0.00
ATOM 1217	CD1	LEU A	84	143.083	5.655	-1.372	1.00	0.00
ATOM 1218	CD2	LEU A	84	142.881	7.909	-2.436	1.00	0.00
ATOM 1219	H	LEU A	84	146.091	5.408	-5.124	1.00	0.00
ATOM 1220	HA	LEU A	84	144.283	3.990	-3.531	1.00	0.00
ATOM 1221	1HB	LEU A	84	145.131	6.159	-2.881	1.00	0.00
ATOM 1222	2HB	LEU A	84	144.364	6.913	-4.265	1.00	0.00
ATOM 1223	HG	LEU A	84	142.147	6.081	-3.226	1.00	0.00
ATOM 1224	1HD1	LEU A	84	142.280	5.984	-0.729	1.00	0.00
ATOM 1225	2HD1	LEU A	84	144.030	5.843	-0.889	1.00	0.00
ATOM 1226	3HD1	LEU A	84	142.980	4.597	-1.562	1.00	0.00
ATOM 1227	1HD2	LEU A	84	141.983	8.094	-1.866	1.00	0.00
ATOM 1228	2HD2	LEU A	84	142.822	8.429	-3.380	1.00	0.00

ATOM 1229	3HD2	LEU A	84	143.738	8.263	-1.883	1.00	0.00
ATOM 1230	N	LYS A	85	143.085	5.064	-6.363	1.00	0.00
ATOM 1231	CA	LYS A	85	141.947	4.991	-7.271	1.00	0.00
ATOM 1232	C	LYS A	85	141.531	3.543	-7.511	1.00	0.00
ATOM 1233	O	LYS A	85	140.366	3.259	-7.790	1.00	0.00
ATOM 1234	CB	LYS A	85	142.288	5.663	-8.603	1.00	0.00
ATOM 1235	CG	LYS A	85	143.572	5.147	-9.232	1.00	0.00
ATOM 1236	CD	LYS A	85	143.681	5.556	-10.693	1.00	0.00
ATOM 1237	CE	LYS A	85	144.838	4.854	-11.383	1.00	0.00
ATOM 1238	NZ	LYS A	85	146.048	5.720	-11.459	1.00	0.00
ATOM 1239	H	LYS A	85	143.936	5.424	-6.691	1.00	0.00
ATOM 1240	HA	LYS A	85	141.123	5.519	-6.814	1.00	0.00
ATOM 1241	1HB	LYS A	85	141.479	5.492	-9.298	1.00	0.00
ATOM 1242	2HB	LYS A	85	142.394	6.725	-8.441	1.00	0.00
ATOM 1243	1HG	LYS A	85	144.414	5.552	-8.692	1.00	0.00
ATOM 1244	2HG	LYS A	85	143.585	4.069	-9.168	1.00	0.00
ATOM 1245	1HD	LYS A	85	142.763	5.298	-11.199	1.00	0.00
ATOM 1246	2HD	LYS A	85	143.834	6.625	-10.746	1.00	0.00
ATOM 1247	1HE	LYS A	85	145.082	3.960	-10.830	1.00	0.00
ATOM 1248	2HE	LYS A	85	144.534	4.587	-12.385	1.00	0.00
ATOM 1249	1HZ	LYS A	85	145.772	6.705	-11.648	1.00	0.00
ATOM 1250	2HZ	LYS A	85	146.673	5.395	-12.222	1.00	0.00
ATOM 1251	3HZ	LYS A	85	146.569	5.684	-10.560	1.00	0.00
ATOM 1252	N	SER A	86	142.491	2.629	-7.401	1.00	0.00
ATOM 1253	CA	SER A	86	142.223	1.211	-7.606	1.00	0.00
ATOM 1254	C	SER A	86	142.207	0.464	-6.276	1.00	0.00
ATOM 1255	O	SER A	86	142.569	-0.710	-6.208	1.00	0.00
ATOM 1256	CB	SER A	86	143.274	0.600	-8.535	1.00	0.00
ATOM 1257	OG	SER A	86	143.390	1.346	-9.734	1.00	0.00

ATOM 1258	H	SER A	86	143.402	2.916	-7.178	1.00	0.00
ATOM 1259	HA	SER A	86	141.251	1.121	-8.067	1.00	0.00
ATOM 1260	1HB	SER A	86	144.232	0.594	-8.036	1.00	0.00
ATOM 1261	2HB	SER A	86	142.988	-0.412	-8.780	1.00	0.00
ATOM 1262	HG	SER A	86	143.240	0.769	-10.486	1.00	0.00
ATOM 1263	N	CYS A	87	141.785	1.153	-5.221	1.00	0.00
ATOM 1264	CA	CYS A	87	141.722	0.555	-3.893	1.00	0.00
ATOM 1265	C	CYS A	87	140.276	0.316	-3.471	1.00	0.00
ATOM 1266	O	CYS A	87	139.400	1.145	-3.719	1.00	0.00
ATOM 1267	CB	CYS A	87	142.421	1.455	-2.872	1.00	0.00
ATOM 1268	SG	CYS A	87	144.221	1.289	-2.851	1.00	0.00
ATOM 1269	H	CYS A	87	141.509	2.086	-5.339	1.00	0.00
ATOM 1270	HA	CYS A	87	142.235	-0.395	-3.932	1.00	0.00
ATOM 1271	1HB	CYS A	87	142.190	2.486	-3.095	1.00	0.00
ATOM 1272	2HB	CYS A	87	142.056	1.217	-1.884	1.00	0.00
ATOM 1273	HG	CYS A	87	144.431	0.366	-2.690	1.00	0.00
ATOM 1274	N	ARG A	88	140.033	-0.824	-2.832	1.00	0.00
ATOM 1275	CA	ARG A	88	138.693	-1.175	-2.374	1.00	0.00
ATOM 1276	C	ARG A	88	138.606	-1.111	-0.850	1.00	0.00
ATOM 1277	O	ARG A	88	139.568	-1.430	-0.152	1.00	0.00
ATOM 1278	CB	ARG A	88	138.315	-2.576	-2.865	1.00	0.00
ATOM 1279	CG	ARG A	88	137.224	-2.575	-3.923	1.00	0.00
ATOM 1280	CD	ARG A	88	136.190	-3.658	-3.660	1.00	0.00
ATOM 1281	NE	ARG A	88	135.005	-3.499	-4.500	1.00	0.00
ATOM 1282	CZ	ARG A	88	134.945	-3.874	-5.776	1.00	0.00
ATOM 1283	NH1	ARG A	88	135.999	-4.428	-6.363	1.00	0.00
ATOM 1284	NH2	ARG A	88	133.828	-3.694	-6.467	1.00	0.00
ATOM 1285	H	ARG A	88	140.773	-1.445	-2.663	1.00	0.00
ATOM 1286	HA	ARG A	88	138.004	-0.458	-2.793	1.00	0.00

ATOM 1287	1HB	ARG A	88	139.193	-3.047	-3.284	1.00	0.00
ATOM 1288	2HB	ARG A	88	137.972	-3.160	-2.024	1.00	0.00
ATOM 1289	1HG	ARG A	88	136.733	-1.614	-3.919	1.00	0.00
ATOM 1290	2HG	ARG A	88	137.675	-2.747	-4.890	1.00	0.00
ATOM 1291	1HD	ARG A	88	136.636	-4.620	-3.862	1.00	0.00
ATOM 1292	2HD	ARG A	88	135.894	-3.611	-2.622	1.00	0.00
ATOM 1293	HE	ARG A	88	134.212	-3.092	-4.092	1.00	0.00
ATOM 1294	1HH1	ARG A	88	136.844	-4.567	-5.847	1.00	0.00
ATOM 1295	2HH1	ARG A	88	135.947	-4.708	-7.321	1.00	0.00
ATOM 1296	1HH2	ARG A	88	133.031	-3.277	-6.031	1.00	0.00
ATOM 1297	2HH2	ARG A	88	133.783	-3.975	-7.426	1.00	0.00
ATOM 1298	N	PRO A	89	137.446	-0.698	-0.311	1.00	0.00
ATOM 1299	CA	PRO A	89	137.243	-0.598	1.132	1.00	0.00
ATOM 1300	C	PRO A	89	137.003	-1.956	1.779	1.00	0.00
ATOM 1301	O	PRO A	89	135.933	-2.547	1.629	1.00	0.00
ATOM 1302	CB	PRO A	89	135.998	0.280	1.252	1.00	0.00
ATOM 1303	CG	PRO A	89	135.237	0.053	-0.007	1.00	0.00
ATOM 1304	CD	PRO A	89	136.244	-0.301	-1.068	1.00	0.00
ATOM 1305	HA	PRO A	89	138.077	-0.112	1.616	1.00	0.00
ATOM 1306	1HB	PRO A	89	135.427	-0.025	2.113	1.00	0.00
ATOM 1307	2HB	PRO A	89	136.291	1.314	1.355	1.00	0.00
ATOM 1308	1HG	PRO A	89	134.540	-0.760	0.131	1.00	0.00
ATOM 1309	2HG	PRO A	89	134.708	0.955	-0.280	1.00	0.00
ATOM 1310	1HD	PRO A	89	135.880	-1.123	-1.662	1.00	0.00
ATOM 1311	2HD	PRO A	89	136.449	0.555	-1.694	1.00	0.00
ATOM 1312	N	ASP A	90	138.005	-2.448	2.500	1.00	0.00
ATOM 1313	CA	ASP A	90	137.904	-3.738	3.170	1.00	0.00
ATOM 1314	C	ASP A	90	136.864	-3.694	4.284	1.00	0.00
ATOM 1315	O	ASP A	90	136.879	-2.797	5.127	1.00	0.00

ATOM 1316	CB	ASP A	90	139.264	-4.144	3.744	1.00	0.00
ATOM 1317	CG	ASP A	90	139.447	-5.649	3.787	1.00	0.00
ATOM 1318	OD1	ASP A	90	138.703	-6.359	3.077	1.00	0.00
ATOM 1319	OD2	ASP A	90	140.334	-6.118	4.530	1.00	0.00
ATOM 1320	H	ASP A	90	138.833	-1.929	2.582	1.00	0.00
ATOM 1321	HA	ASP A	90	137.600	-4.469	2.438	1.00	0.00
ATOM 1322	1HB	ASP A	90	140.046	-3.723	3.130	1.00	0.00
ATOM 1323	2HB	ASP A	90	139.353	-3.759	4.749	1.00	0.00
ATOM 1324	N	SER A	91	135.959	-4.668	4.280	1.00	0.00
ATOM 1325	CA	SER A	91	134.910	-4.741	5.290	1.00	0.00
ATOM 1326	C	SER A	91	135.155	-5.905	6.245	1.00	0.00
ATOM 1327	O	SER A	91	134.212	-6.499	6.769	1.00	0.00
ATOM 1328	CB	SER A	91	133.542	-4.891	4.625	1.00	0.00
ATOM 1329	OG	SER A	91	132.523	-4.303	5.413	1.00	0.00
ATOM 1330	H	SER A	91	136.000	-5.354	3.582	1.00	0.00
ATOM 1331	HA	SER A	91	134.928	-3.820	5.853	1.00	0.00
ATOM 1332	1HB	SER A	91	133.558	-4.407	3.660	1.00	0.00
ATOM 1333	2HB	SER A	91	133.320	-5.940	4.497	1.00	0.00
ATOM 1334	HG	SER A	91	132.485	-3.359	5.235	1.00	0.00
ATOM 1335	N	ARG A	92	136.425	-6.227	6.465	1.00	0.00
ATOM 1336	CA	ARG A	92	136.792	-7.322	7.357	1.00	0.00
ATOM 1337	C	ARG A	92	136.427	-6.995	8.800	1.00	0.00
ATOM 1338	O	ARG A	92	136.114	-7.886	9.589	1.00	0.00
ATOM 1339	CB	ARG A	92	138.291	-7.612	7.249	1.00	0.00
ATOM 1340	CG	ARG A	92	138.675	-8.368	5.988	1.00	0.00
ATOM 1341	CD	ARG A	92	139.939	-9.187	6.192	1.00	0.00
ATOM 1342	NE	ARG A	92	139.696	-10.375	7.006	1.00	0.00
ATOM 1343	CZ	ARG A	92	140.512	-11.425	7.047	1.00	0.00
ATOM 1344	NH1	ARG A	92	141.626	-11.438	6.323	1.00	0.00

ATOM 1345	NH2	ARG A	92	140.217	-12.465	7.815	1.00	0.00
ATOM 1346	H	ARG A	92	137.132	-5.717	6.018	1.00	0.00
ATOM 1347	HA	ARG A	92	136.242	-8.197	7.048	1.00	0.00
ATOM 1348	1HB	ARG A	92	138.829	-6.676	7.260	1.00	0.00
ATOM 1349	2HB	ARG A	92	138.593	-8.201	8.102	1.00	0.00
ATOM 1350	1HG	ARG A	92	137.868	-9.032	5.718	1.00	0.00
ATOM 1351	2HG	ARG A	92	138.841	-7.658	5.191	1.00	0.00
ATOM 1352	1HD	ARG A	92	140.314	-9.494	5.227	1.00	0.00
ATOM 1353	2HD	ARG A	92	140.676	-8.569	6.684	1.00	0.00
ATOM 1354	HE	ARG A	92	138.881	-10.392	7.551	1.00	0.00
ATOM 1355	1HH1	ARG A	92	141.854	-10.657	5.742	1.00	0.00
ATOM 1356	2HH1	ARG A	92	142.235	-12.231	6.359	1.00	0.00
ATOM 1357	1HH2	ARG A	92	139.380	-12.460	8.362	1.00	0.00
ATOM 1358	2HH2	ARG A	92	140.831	-13.254	7.846	1.00	0.00
ATOM 1359	N	PHE A	93	136.471	-5.710	9.141	1.00	0.00
ATOM 1360	CA	PHE A	93	136.145	-5.267	10.491	1.00	0.00
ATOM 1361	C	PHE A	93	135.088	-4.167	10.466	1.00	0.00
ATOM 1362	O	PHE A	93	135.035	-3.324	11.363	1.00	0.00
ATOM 1363	CB	PHE A	93	137.403	-4.764	11.203	1.00	0.00
ATOM 1364	CG	PHE A	93	138.417	-5.841	11.463	1.00	0.00
ATOM 1365	CD1	PHE A	93	138.403	-6.550	12.655	1.00	0.00
ATOM 1366	CD2	PHE A	93	139.383	-6.145	10.518	1.00	0.00
ATOM 1367	CE1	PHE A	93	139.336	-7.542	12.897	1.00	0.00
ATOM 1368	CE2	PHE A	93	140.317	-7.135	10.755	1.00	0.00
ATOM 1369	CZ	PHE A	93	140.293	-7.834	11.947	1.00	0.00
ATOM 1370	H	PHE A	93	136.729	-5.045	8.469	1.00	0.00
ATOM 1371	HA	PHE A	93	135.752	-6.114	11.033	1.00	0.00
ATOM 1372	1HB	PHE A	93	137.873	-4.006	10.594	1.00	0.00
ATOM 1373	2HB	PHE A	93	137.122	-4.333	12.153	1.00	0.00

ATOM 1374	HD1	PHE A	93	137.654	-6.322	13.398	1.00	0.00
ATOM 1375	HD2	PHE A	93	139.403	-5.599	9.587	1.00	0.00
ATOM 1376	HE1	PHE A	93	139.315	-8.086	13.830	1.00	0.00
ATOM 1377	HE2	PHE A	93	141.066	-7.362	10.010	1.00	0.00
ATOM 1378	HZ	PHE A	93	141.023	-8.608	12.134	1.00	0.00
ATOM 1379	N	ALA A	94	134.248	-4.179	9.436	1.00	0.00
ATOM 1380	CA	ALA A	94	133.194	-3.181	9.298	1.00	0.00
ATOM 1381	C	ALA A	94	131.841	-3.752	9.711	1.00	0.00
ATOM 1382	O	ALA A	94	131.381	-4.748	9.154	1.00	0.00
ATOM 1383	CB	ALA A	94	133.139	-2.667	7.869	1.00	0.00
ATOM 1384	H	ALA A	94	134.339	-4.875	8.752	1.00	0.00
ATOM 1385	HA	ALA A	94	133.436	-2.351	9.946	1.00	0.00
ATOM 1386	1HB	ALA A	94	134.082	-2.860	7.379	1.00	0.00
ATOM 1387	2HB	ALA A	94	132.950	-1.603	7.877	1.00	0.00
ATOM 1388	3HB	ALA A	94	132.346	-3.169	7.335	1.00	0.00
ATOM 1389	N	SER A	95	131.210	-3.113	10.691	1.00	0.00
ATOM 1390	CA	SER A	95	129.909	-3.557	11.178	1.00	0.00
ATOM 1391	C	SER A	95	128.787	-2.722	10.569	1.00	0.00
ATOM 1392	O	SER A	95	128.757	-1.500	10.719	1.00	0.00
ATOM 1393	CB	SER A	95	129.855	-3.471	12.704	1.00	0.00
ATOM 1394	OG	SER A	95	130.341	-2.221	13.162	1.00	0.00
ATOM 1395	H	SER A	95	131.628	-2.324	11.096	1.00	0.00
ATOM 1396	HA	SER A	95	129.778	-4.587	10.879	1.00	0.00
ATOM 1397	1HB	SER A	95	128.834	-3.588	13.033	1.00	0.00
ATOM 1398	2HB	SER A	95	130.462	-4.257	13.129	1.00	0.00
ATOM 1399	HG	SER A	95	131.063	-2.362	13.777	1.00	0.00
ATOM 1400	N	LEU A	96	127.865	-3.390	9.882	1.00	0.00
ATOM 1401	CA	LEU A	96	126.741	-2.709	9.251	1.00	0.00
ATOM 1402	C	LEU A	96	125.532	-2.677	10.181	1.00	0.00

ATOM 1403	O	LEU A	96	124.737	-1.737	10.150	1.00	0.00
ATOM 1404	CB	LEU A	96	126.371	-3.401	7.938	1.00	0.00
ATOM 1405	CG	LEU A	96	125.417	-2.614	7.038	1.00	0.00
ATOM 1406	CD1	LEU A	96	125.715	-2.891	5.572	1.00	0.00
ATOM 1407	CD2	LEU A	96	123.972	-2.958	7.364	1.00	0.00
ATOM 1408	H	LEU A	96	127.944	-4.363	9.798	1.00	0.00
ATOM 1409	HA	LEU A	96	127.044	-1.695	9.040	1.00	0.00
ATOM 1410	1HB	LEU A	96	127.280	-3.590	7.387	1.00	0.00
ATOM 1411	2HB	LEU A	96	125.908	-4.349	8.173	1.00	0.00
ATOM 1412	HG	LEU A	96	125.558	-1.557	7.212	1.00	0.00
ATOM 1413	1HD1	LEU A	96	125.101	-3.710	5.230	1.00	0.00
ATOM 1414	2HD1	LEU A	96	126.757	-3.151	5.460	1.00	0.00
ATOM 1415	3HD1	LEU A	96	125.498	-2.009	4.987	1.00	0.00
ATOM 1416	1HD2	LEU A	96	123.911	-3.334	8.374	1.00	0.00
ATOM 1417	2HD2	LEU A	96	123.617	-3.712	6.678	1.00	0.00
ATOM 1418	3HD2	LEU A	96	123.361	-2.072	7.272	1.00	0.00
ATOM 1419	N	GLN A	97	125.400	-3.710	11.007	1.00	0.00
ATOM 1420	CA	GLN A	97	124.288	-3.800	11.946	1.00	0.00
ATOM 1421	C	GLN A	97	124.353	-2.675	12.977	1.00	0.00
ATOM 1422	O	GLN A	97	125.436	-2.211	13.334	1.00	0.00
ATOM 1423	CB	GLN A	97	124.298	-5.156	12.652	1.00	0.00
ATOM 1424	CG	GLN A	97	123.726	-6.285	11.811	1.00	0.00
ATOM 1425	CD	GLN A	97	124.413	-7.612	12.070	1.00	0.00
ATOM 1426	OE1	GLN A	97	123.776	-8.584	12.477	1.00	0.00
ATOM 1427	NE2	GLN A	97	125.719	-7.657	11.836	1.00	0.00
ATOM 1428	H	GLN A	97	126.066	-4.429	10.985	1.00	0.00
ATOM 1429	HA	GLN A	97	123.371	-3.703	11.384	1.00	0.00
ATOM 1430	1HB	GLN A	97	125.316	-5.409	12.909	1.00	0.00
ATOM 1431	2HB	GLN A	97	123.715	-5.082	13.559	1.00	0.00

ATOM 1432	1HG	GLN	A	97	122.676	-6.391	12.039	1.00	0.00
ATOM 1433	2HG	GLN	A	97	123.843	-6.033	10.767	1.00	0.00
ATOM 1434	1HE2	GLN	A	97	126.160	-6.845	11.513	1.00	0.00
ATOM 1435	2HE2	GLN	A	97	126.188	-8.503	11.995	1.00	0.00
ATOM 1436	N	PRO	A	98	123.189	-2.221	13.472	1.00	0.00
ATOM 1437	CA	PRO	A	98	123.119	-1.146	14.467	1.00	0.00
ATOM 1438	C	PRO	A	98	123.998	-1.425	15.682	1.00	0.00
ATOM 1439	O	PRO	A	98	124.079	-2.557	16.155	1.00	0.00
ATOM 1440	CB	PRO	A	98	121.643	-1.126	14.869	1.00	0.00
ATOM 1441	CG	PRO	A	98	120.923	-1.699	13.698	1.00	0.00
ATOM 1442	CD	PRO	A	98	121.851	-2.719	13.101	1.00	0.00
ATOM 1443	HA	PRO	A	98	123.392	-0.193	14.037	1.00	0.00
ATOM 1444	1HB	PRO	A	98	121.500	-1.727	15.755	1.00	0.00
ATOM 1445	2HB	PRO	A	98	121.334	-0.110	15.062	1.00	0.00
ATOM 1446	1HG	PRO	A	98	120.007	-2.170	14.026	1.00	0.00
ATOM 1447	2HG	PRO	A	98	120.710	-0.921	12.981	1.00	0.00
ATOM 1448	1HD	PRO	A	98	121.669	-3.693	13.531	1.00	0.00
ATOM 1449	2HD	PRO	A	98	121.736	-2.752	12.028	1.00	0.00
ATOM 1450	N	SER	A	99	124.656	-0.383	16.181	1.00	0.00
ATOM 1451	CA	SER	A	99	125.530	-0.515	17.341	1.00	0.00
ATOM 1452	C	SER	A	99	125.438	0.716	18.234	1.00	0.00
ATOM 1453	O	SER	A	99	125.514	1.849	17.757	1.00	0.00
ATOM 1454	CB	SER	A	99	126.977	-0.729	16.894	1.00	0.00
ATOM 1455	OG	SER	A	99	127.645	-1.643	17.748	1.00	0.00
ATOM 1456	H	SER	A	99	124.551	0.495	15.760	1.00	0.00
ATOM 1457	HA	SER	A	99	125.205	-1.378	17.903	1.00	0.00
ATOM 1458	1HB	SER	A	99	126.986	-1.125	15.888	1.00	0.00
ATOM 1459	2HB	SER	A	99	127.501	0.214	16.914	1.00	0.00
ATOM 1460	HG	SER	A	99	127.146	-2.461	17.795	1.00	0.00

ATOM 1461	N	GLY A 100	125.276	0.488	19.534	1.00	0.00
ATOM 1462	CA	GLY A 100	125.177	1.590	20.473	1.00	0.00
ATOM 1463	C	GLY A 100	126.449	1.782	21.279	1.00	0.00
ATOM 1464	O	GLY A 100	127.322	0.915	21.279	1.00	0.00
ATOM 1465	H	GLY A 100	125.223	-0.435	19.857	1.00	0.00
ATOM 1466	1HA	GLY A 100	124.971	2.498	19.926	1.00	0.00
ATOM 1467	2HA	GLY A 100	124.359	1.397	21.152	1.00	0.00
ATOM 1468	N	PRO A 101	126.583	2.919	21.983	1.00	0.00
ATOM 1469	CA	PRO A 101	127.768	3.210	22.797	1.00	0.00
ATOM 1470	C	PRO A 101	128.098	2.079	23.763	1.00	0.00
ATOM 1471	O	PRO A 101	129.261	1.853	24.098	1.00	0.00
ATOM 1472	CB	PRO A 101	127.372	4.472	23.565	1.00	0.00
ATOM 1473	CG	PRO A 101	126.339	5.126	22.714	1.00	0.00
ATOM 1474	CD	PRO A 101	125.590	4.010	22.041	1.00	0.00
ATOM 1475	HA	PRO A 101	128.630	3.417	22.178	1.00	0.00
ATOM 1476	1HB	PRO A 101	126.974	4.199	24.531	1.00	0.00
ATOM 1477	2HB	PRO A 101	128.237	5.107	23.691	1.00	0.00
ATOM 1478	1HG	PRO A 101	125.670	5.708	23.331	1.00	0.00
ATOM 1479	2HG	PRO A 101	126.814	5.756	21.977	1.00	0.00
ATOM 1480	1HD	PRO A 101	124.733	3.720	22.631	1.00	0.00
ATOM 1481	2HD	PRO A 101	125.285	4.304	21.048	1.00	0.00
ATOM 1482	N	SER A 102	127.066	1.370	24.210	1.00	0.00
ATOM 1483	CA	SER A 102	127.246	0.261	25.141	1.00	0.00
ATOM 1484	C	SER A 102	127.156	-1.077	24.416	1.00	0.00
ATOM 1485	O	SER A 102	126.907	-1.127	23.210	1.00	0.00
ATOM 1486	CB	SER A 102	126.198	0.324	26.252	1.00	0.00
ATOM 1487	OG	SER A 102	126.340	-0.761	27.151	1.00	0.00
ATOM 1488	H	SER A 102	126.162	1.598	23.908	1.00	0.00
ATOM 1489	HA	SER A 102	128.230	0.353	25.579	1.00	0.00

ATOM 1490 1HB SER A 102 126.313 1.247 26.801 1.00 0.00
ATOM 1491 2HB SER A 102 125.211 0.286 25.815 1.00 0.00
ATOM 1492 HG SER A 102 125.972 -0.521 28.004 1.00 0.00
ATOM 1493 N SER A 103 127.358 -2.162 25.157 1.00 0.00
ATOM 1494 CA SER A 103 127.298 -3.502 24.584 1.00 0.00
ATOM 1495 C SER A 103 127.003 -4.541 25.661 1.00 0.00
ATOM 1496 O SER A 103 127.271 -4.320 26.842 1.00 0.00
ATOM 1497 CB SER A 103 128.615 -3.838 23.882 1.00 0.00
ATOM 1498 OG SER A 103 128.608 -5.168 23.394 1.00 0.00
ATOM 1499 H SER A 103 127.552 -2.058 26.112 1.00 0.00
ATOM 1500 HA SER A 103 126.499 -3.516 23.858 1.00 0.00
ATOM 1501 1HB SER A 103 128.758 -3.165 23.050 1.00 0.00
ATOM 1502 2HB SER A 103 129.431 -3.727 24.581 1.00 0.00
ATOM 1503 HG SER A 103 127.773 -5.344 22.953 1.00 0.00
ATOM 1504 N GLY A 104 126.448 -5.675 25.246 1.00 0.00
ATOM 1505 CA GLY A 104 126.126 -6.731 26.186 1.00 0.00
ATOM 1506 C GLY A 104 126.008 -8.087 25.519 1.00 0.00
ATOM 1507 O GLY A 104 124.930 -8.384 24.963 1.00 0.00
ATOM 1508 OXT GLY A 104 126.994 -8.853 25.551 1.00 0.00
ATOM 1509 H GLY A 104 126.257 -5.796 24.292 1.00 0.00
ATOM 1510 1HA GLY A 104 126.901 -6.778 26.937 1.00 0.00
ATOM 1511 2HA GLY A 104 125.188 -6.496 26.667 1.00 0.00
TER 1512 GLY A 104
ENDMDL

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ATOM 1 N GLY A 1 109.776 8.327 -20.550 1.00 0.00
ATOM 2 CA GLY A 1 110.429 7.092 -20.038 1.00 0.00

ATOM 3	C	GLY A	1	110.587	7.101	-18.531	1.00	0.00
ATOM 4	O	GLY A	1	110.302	8.105	-17.876	1.00	0.00
ATOM 5	1H	GLY A	1	110.222	8.624	-21.442	1.00	0.00
ATOM 6	2H	GLY A	1	109.870	9.095	-19.856	1.00	0.00
ATOM 7	3H	GLY A	1	108.765	8.152	-20.722	1.00	0.00
ATOM 8	1HA	GLY A	1	109.832	6.237	-20.321	1.00	0.00
ATOM 9	2HA	GLY A	1	111.406	6.999	-20.491	1.00	0.00
ATOM 10	N	SER A	2	111.043	5.982	-17.978	1.00	0.00
ATOM 11	CA	SER A	2	111.239	5.865	-16.538	1.00	0.00
ATOM 12	C	SER A	2	112.551	6.516	-16.111	1.00	0.00
ATOM 13	O	SER A	2	113.614	5.897	-16.184	1.00	0.00
ATOM 14	CB	SER A	2	111.225	4.394	-16.117	1.00	0.00
ATOM 15	OG	SER A	2	110.002	3.772	-16.475	1.00	0.00
ATOM 16	H	SER A	2	111.252	5.217	-18.552	1.00	0.00
ATOM 17	HA	SER A	2	110.422	6.377	-16.050	1.00	0.00
ATOM 18	1HB	SER A	2	112.035	3.874	-16.606	1.00	0.00
ATOM 19	2HB	SER A	2	111.348	4.328	-15.046	1.00	0.00
ATOM 20	HG	SER A	2	109.293	4.121	-15.929	1.00	0.00
ATOM 21	N	SER A	3	112.470	7.766	-15.669	1.00	0.00
ATOM 22	CA	SER A	3	113.651	8.500	-15.231	1.00	0.00
ATOM 23	C	SER A	3	114.121	8.012	-13.865	1.00	0.00
ATOM 24	O	SER A	3	113.652	8.486	-12.831	1.00	0.00
ATOM 25	CB	SER A	3	113.354	9.999	-15.175	1.00	0.00
ATOM 26	OG	SER A	3	112.378	10.289	-14.190	1.00	0.00
ATOM 27	H	SER A	3	111.595	8.205	-15.635	1.00	0.00
ATOM 28	HA	SER A	3	114.435	8.325	-15.952	1.00	0.00
ATOM 29	1HB	SER A	3	114.260	10.536	-14.934	1.00	0.00
ATOM 30	2HB	SER A	3	112.986	10.327	-16.137	1.00	0.00
ATOM 31	HG	SER A	3	111.624	9.705	-14.304	1.00	0.00

ATOM 32	N	GLY A	4	115.050	7.061	-13.868	1.00	0.00
ATOM 33	CA	GLY A	4	115.567	6.524	-12.624	1.00	0.00
ATOM 34	C	GLY A	4	116.956	7.039	-12.303	1.00	0.00
ATOM 35	O	GLY A	4	117.941	6.312	-12.437	1.00	0.00
ATOM 36	H	GLY A	4	115.386	6.721	-14.724	1.00	0.00
ATOM 37	1HA	GLY A	4	114.899	6.799	-11.821	1.00	0.00
ATOM 38	2HA	GLY A	4	115.601	5.447	-12.696	1.00	0.00
ATOM 39	N	SER A	5	117.036	8.296	-11.879	1.00	0.00
ATOM 40	CA	SER A	5	118.315	8.907	-11.538	1.00	0.00
ATOM 41	C	SER A	5	118.862	8.335	-10.234	1.00	0.00
ATOM 42	O	SER A	5	118.354	8.631	-9.153	1.00	0.00
ATOM 43	CB	SER A	5	118.163	10.425	-11.416	1.00	0.00
ATOM 44	OG	SER A	5	118.434	11.066	-12.651	1.00	0.00
ATOM 45	H	SER A	5	116.215	8.824	-11.793	1.00	0.00
ATOM 46	HA	SER A	5	119.010	8.687	-12.334	1.00	0.00
ATOM 47	1HB	SER A	5	117.152	10.660	-11.118	1.00	0.00
ATOM 48	2HB	SER A	5	118.852	10.796	-10.673	1.00	0.00
ATOM 49	HG	SER A	5	117.844	10.722	-13.326	1.00	0.00
ATOM 50	N	SER A	6	119.900	7.513	-10.346	1.00	0.00
ATOM 51	CA	SER A	6	120.517	6.898	-9.176	1.00	0.00
ATOM 52	C	SER A	6	121.346	7.916	-8.400	1.00	0.00
ATOM 53	O	SER A	6	122.263	8.530	-8.945	1.00	0.00
ATOM 54	CB	SER A	6	121.398	5.721	-9.598	1.00	0.00
ATOM 55	OG	SER A	6	120.613	4.582	-9.910	1.00	0.00
ATOM 56	H	SER A	6	120.261	7.315	-11.236	1.00	0.00
ATOM 57	HA	SER A	6	119.726	6.534	-8.537	1.00	0.00
ATOM 58	1HB	SER A	6	121.972	5.997	-10.469	1.00	0.00
ATOM 59	2HB	SER A	6	122.069	5.468	-8.789	1.00	0.00
ATOM 60	HG	SER A	6	119.941	4.824	-10.552	1.00	0.00

ATOM 61	N	GLY A	7	121.018	8.090	-7.124	1.00	0.00
ATOM 62	CA	GLY A	7	121.741	9.034	-6.294	1.00	0.00
ATOM 63	C	GLY A	7	123.057	8.474	-5.789	1.00	0.00
ATOM 64	O	GLY A	7	123.371	7.306	-6.020	1.00	0.00
ATOM 65	H	GLY A	7	120.277	7.572	-6.743	1.00	0.00
ATOM 66	1HA	GLY A	7	121.940	9.925	-6.871	1.00	0.00
ATOM 67	2HA	GLY A	7	121.126	9.297	-5.446	1.00	0.00
ATOM 68	N	LEU A	8	123.827	9.308	-5.098	1.00	0.00
ATOM 69	CA	LEU A	8	125.116	8.891	-4.559	1.00	0.00
ATOM 70	C	LEU A	8	125.238	9.269	-3.087	1.00	0.00
ATOM 71	O	LEU A	8	124.313	9.831	-2.501	1.00	0.00
ATOM 72	CB	LEU A	8	126.256	9.526	-5.357	1.00	0.00
ATOM 73	CG	LEU A	8	126.181	9.318	-6.871	1.00	0.00
ATOM 74	CD1	LEU A	8	126.778	10.510	-7.604	1.00	0.00
ATOM 75	CD2	LEU A	8	126.893	8.035	-7.268	1.00	0.00
ATOM 76	H	LEU A	8	123.521	10.228	-4.948	1.00	0.00
ATOM 77	HA	LEU A	8	125.180	7.817	-4.650	1.00	0.00
ATOM 78	1HB	LEU A	8	126.257	10.589	-5.160	1.00	0.00
ATOM 79	2HB	LEU A	8	127.188	9.111	-5.006	1.00	0.00
ATOM 80	HG	LEU A	8	125.145	9.233	-7.165	1.00	0.00
ATOM 81	1HD1	LEU A	8	126.595	10.410	-8.663	1.00	0.00
ATOM 82	2HD1	LEU A	8	127.842	10.547	-7.424	1.00	0.00
ATOM 83	3HD1	LEU A	8	126.321	11.420	-7.243	1.00	0.00
ATOM 84	1HD2	LEU A	8	127.032	8.016	-8.338	1.00	0.00
ATOM 85	2HD2	LEU A	8	126.298	7.185	-6.968	1.00	0.00
ATOM 86	3HD2	LEU A	8	127.855	7.991	-6.778	1.00	0.00
ATOM 87	N	ALA A	9	126.386	8.956	-2.494	1.00	0.00
ATOM 88	CA	ALA A	9	126.629	9.263	-1.089	1.00	0.00
ATOM 89	C	ALA A	9	128.123	9.319	-0.790	1.00	0.00

ATOM 90	O	ALA A	9	128.784	8.286	-0.684	1.00	0.00
ATOM 91	CB	ALA A	9	125.948	8.234	-0.200	1.00	0.00
ATOM 92	H	ALA A	9	127.085	8.509	-3.014	1.00	0.00
ATOM 93	HA	ALA A	9	126.193	10.230	-0.879	1.00	0.00
ATOM 94	1HB	ALA A	9	126.527	8.100	0.702	1.00	0.00
ATOM 95	2HB	ALA A	9	125.879	7.293	-0.726	1.00	0.00
ATOM 96	3HB	ALA A	9	124.957	8.578	0.056	1.00	0.00
ATOM 97	N	MET A	10	128.649	10.532	-0.656	1.00	0.00
ATOM 98	CA	MET A	10	130.065	10.723	-0.368	1.00	0.00
ATOM 99	C	MET A	10	130.375	12.196	-0.106	1.00	0.00
ATOM 100	O	MET A	10	131.055	12.848	-0.897	1.00	0.00
ATOM 101	CB	MET A	10	130.917	10.208	-1.531	1.00	0.00
ATOM 102	CG	MET A	10	130.463	10.718	-2.889	1.00	0.00
ATOM 103	SD	MET A	10	130.805	9.549	-4.219	1.00	0.00
ATOM 104	CE	MET A	10	131.247	10.668	-5.547	1.00	0.00
ATOM 105	H	MET A	10	128.071	11.318	-0.752	1.00	0.00
ATOM 106	HA	MET A	10	130.303	10.155	0.519	1.00	0.00
ATOM 107	1HB	MET A	10	131.940	10.518	-1.378	1.00	0.00
ATOM 108	2HB	MET A	10	130.875	9.129	-1.544	1.00	0.00
ATOM 109	1HG	MET A	10	129.399	10.900	-2.854	1.00	0.00
ATOM 110	2HG	MET A	10	130.978	11.644	-3.101	1.00	0.00
ATOM 111	1HE	MET A	10	131.070	10.186	-6.498	1.00	0.00
ATOM 112	2HE	MET A	10	132.292	10.929	-5.464	1.00	0.00
ATOM 113	3HE	MET A	10	130.646	11.563	-5.479	1.00	0.00
ATOM 114	N	PRO A	11	129.875	12.741	1.016	1.00	0.00
ATOM 115	CA	PRO A	11	130.099	14.144	1.382	1.00	0.00
ATOM 116	C	PRO A	11	131.584	14.494	1.481	1.00	0.00
ATOM 117	O	PRO A	11	132.022	15.511	0.943	1.00	0.00
ATOM 118	CB	PRO A	11	129.422	14.281	2.749	1.00	0.00

ATOM 119	CG	PRO A	11	128.447	13.156	2.814	1.00	0.00
ATOM 120	CD	PRO A	11	129.052	12.036	2.016	1.00	0.00
ATOM 121	HA	PRO A	11	129.625	14.812	0.676	1.00	0.00
ATOM 122	1HB	PRO A	11	130.163	14.208	3.530	1.00	0.00
ATOM 123	2HB	PRO A	11	128.923	15.237	2.810	1.00	0.00
ATOM 124	1HG	PRO A	11	128.307	12.850	3.840	1.00	0.00
ATOM 125	2HG	PRO A	11	127.506	13.459	2.380	1.00	0.00
ATOM 126	1HD	PRO A	11	129.664	11.409	2.646	1.00	0.00
ATOM 127	2HD	PRO A	11	128.279	11.453	1.535	1.00	0.00
ATOM 128	N	PRO A	12	132.385	13.659	2.172	1.00	0.00
ATOM 129	CA	PRO A	12	133.818	13.901	2.329	1.00	0.00
ATOM 130	C	PRO A	12	134.619	13.477	1.102	1.00	0.00
ATOM 131	O	PRO A	12	135.603	14.120	0.738	1.00	0.00
ATOM 132	CB	PRO A	12	134.181	13.034	3.531	1.00	0.00
ATOM 133	CG	PRO A	12	133.233	11.887	3.465	1.00	0.00
ATOM 134	CD	PRO A	12	131.961	12.417	2.853	1.00	0.00
ATOM 135	HA	PRO A	12	134.024	14.938	2.554	1.00	0.00
ATOM 136	1HB	PRO A	12	135.207	12.707	3.447	1.00	0.00
ATOM 137	2HB	PRO A	12	134.051	13.600	4.442	1.00	0.00
ATOM 138	1HG	PRO A	12	133.647	11.106	2.844	1.00	0.00
ATOM 139	2HG	PRO A	12	133.041	11.512	4.460	1.00	0.00
ATOM 140	1HD	PRO A	12	131.563	11.708	2.144	1.00	0.00
ATOM 141	2HD	PRO A	12	131.234	12.629	3.622	1.00	0.00
ATOM 142	N	GLY A	13	134.188	12.392	0.467	1.00	0.00
ATOM 143	CA	GLY A	13	134.875	11.901	-0.713	1.00	0.00
ATOM 144	C	GLY A	13	135.010	10.391	-0.720	1.00	0.00
ATOM 145	O	GLY A	13	134.551	9.716	0.201	1.00	0.00
ATOM 146	H	GLY A	13	133.397	11.920	0.804	1.00	0.00
ATOM 147	1HA	GLY A	13	134.324	12.206	-1.589	1.00	0.00

ATOM 148	2HA	GLY A	13	135.861	12.340	-0.749	1.00	0.00
ATOM 149	N	ASN A	14	135.641	9.860	-1.761	1.00	0.00
ATOM 150	CA	ASN A	14	135.837	8.420	-1.885	1.00	0.00
ATOM 151	C	ASN A	14	134.497	7.691	-1.923	1.00	0.00
ATOM 152	O	ASN A	14	133.438	8.314	-1.851	1.00	0.00
ATOM 153	CB	ASN A	14	136.683	7.898	-0.723	1.00	0.00
ATOM 154	CG	ASN A	14	138.135	8.322	-0.829	1.00	0.00
ATOM 155	OD1	ASN A	14	138.617	8.665	-1.908	1.00	0.00
ATOM 156	ND2	ASN A	14	138.841	8.302	0.296	1.00	0.00
ATOM 157	H	ASN A	14	135.985	10.452	-2.464	1.00	0.00
ATOM 158	HA	ASN A	14	136.360	8.236	-2.811	1.00	0.00
ATOM 159	1HB	ASN A	14	136.283	8.277	0.205	1.00	0.00
ATOM 160	2HB	ASN A	14	136.642	6.818	-0.714	1.00	0.00
ATOM 161	1HD2	ASN A	14	138.392	8.017	1.119	1.00	0.00
ATOM 162	2HD2	ASN A	14	139.782	8.571	0.257	1.00	0.00
ATOM 163	N	SER A	15	134.553	6.368	-2.035	1.00	0.00
ATOM 164	CA	SER A	15	133.345	5.554	-2.081	1.00	0.00
ATOM 165	C	SER A	15	132.712	5.439	-0.698	1.00	0.00
ATOM 166	O	SER A	15	131.601	5.916	-0.471	1.00	0.00
ATOM 167	CB	SER A	15	133.664	4.161	-2.626	1.00	0.00
ATOM 168	OG	SER A	15	132.515	3.330	-2.608	1.00	0.00
ATOM 169	H	SER A	15	135.428	5.930	-2.088	1.00	0.00
ATOM 170	HA	SER A	15	132.644	6.038	-2.745	1.00	0.00
ATOM 171	1HB	SER A	15	134.015	4.246	-3.644	1.00	0.00
ATOM 172	2HB	SER A	15	134.432	3.706	-2.017	1.00	0.00
ATOM 173	HG	SER A	15	131.798	3.765	-3.075	1.00	0.00
ATOM 174	N	HIS A	16	133.429	4.802	0.223	1.00	0.00
ATOM 175	CA	HIS A	16	132.938	4.625	1.585	1.00	0.00
ATOM 176	C	HIS A	16	133.755	5.454	2.570	1.00	0.00

ATOM 177	O	HIS A	16	133.221	6.328	3.255	1.00	0.00
ATOM 178	CB	HIS A	16	132.989	3.147	1.979	1.00	0.00
ATOM 179	CG	HIS A	16	131.830	2.351	1.466	1.00	0.00
ATOM 180	ND1	HIS A	16	131.190	1.385	2.214	1.00	0.00
ATOM 181	CD2	HIS A	16	131.194	2.380	0.270	1.00	0.00
ATOM 182	CE1	HIS A	16	130.213	0.855	1.502	1.00	0.00
ATOM 183	NE2	HIS A	16	130.193	1.441	0.320	1.00	0.00
ATOM 184	H	HIS A	16	134.308	4.444	-0.019	1.00	0.00
ATOM 185	HA	HIS A	16	131.912	4.961	1.614	1.00	0.00
ATOM 186	1HB	HIS A	16	133.894	2.708	1.586	1.00	0.00
ATOM 187	2HB	HIS A	16	132.996	3.070	3.057	1.00	0.00
ATOM 188	HD1	HIS A	16	131.419	1.126	3.131	1.00	0.00
ATOM 189	HD2	HIS A	16	131.431	3.023	-0.566	1.00	0.00
ATOM 190	HE1	HIS A	16	129.542	0.075	1.831	1.00	0.00
ATOM 191	HE2	HIS A	16	129.624	1.178	-0.433	1.00	0.00
ATOM 192	N	GLY A	17	135.053	5.176	2.637	1.00	0.00
ATOM 193	CA	GLY A	17	135.923	5.906	3.540	1.00	0.00
ATOM 194	C	GLY A	17	137.327	5.338	3.579	1.00	0.00
ATOM 195	O	GLY A	17	137.793	4.888	4.626	1.00	0.00
ATOM 196	H	GLY A	17	135.423	4.470	2.067	1.00	0.00
ATOM 197	1HA	GLY A	17	135.972	6.937	3.222	1.00	0.00
ATOM 198	2HA	GLY A	17	135.503	5.868	4.535	1.00	0.00
ATOM 199	N	LEU A	18	138.003	5.358	2.435	1.00	0.00
ATOM 200	CA	LEU A	18	139.364	4.840	2.343	1.00	0.00
ATOM 201	C	LEU A	18	140.375	5.880	2.816	1.00	0.00
ATOM 202	O	LEU A	18	140.747	6.783	2.069	1.00	0.00
ATOM 203	CB	LEU A	18	139.678	4.425	0.904	1.00	0.00
ATOM 204	CG	LEU A	18	138.592	3.593	0.219	1.00	0.00
ATOM 205	CD1	LEU A	18	138.622	3.811	-1.286	1.00	0.00

ATOM 206	CD2	LEU A	18	138.766	2.118	0.549	1.00	0.00
ATOM 207	H	LEU A	18	137.578	5.730	1.635	1.00	0.00
ATOM 208	HA	LEU A	18	139.432	3.971	2.981	1.00	0.00
ATOM 209	1HB	LEU A	18	139.838	5.321	0.321	1.00	0.00
ATOM 210	2HB	LEU A	18	140.591	3.851	0.909	1.00	0.00
ATOM 211	HG	LEU A	18	137.625	3.907	0.581	1.00	0.00
ATOM 212	1HD1	LEU A	18	138.823	4.852	-1.494	1.00	0.00
ATOM 213	2HD1	LEU A	18	137.668	3.537	-1.709	1.00	0.00
ATOM 214	3HD1	LEU A	18	139.399	3.201	-1.723	1.00	0.00
ATOM 215	1HD2	LEU A	18	139.807	1.916	0.753	1.00	0.00
ATOM 216	2HD2	LEU A	18	138.441	1.521	-0.290	1.00	0.00
ATOM 217	3HD2	LEU A	18	138.174	1.872	1.417	1.00	0.00
ATOM 218	N	GLU A	19	140.815	5.743	4.063	1.00	0.00
ATOM 219	CA	GLU A	19	141.783	6.672	4.636	1.00	0.00
ATOM 220	C	GLU A	19	142.815	5.929	5.479	1.00	0.00
ATOM 221	O	GLU A	19	142.747	4.709	5.629	1.00	0.00
ATOM 222	CB	GLU A	19	141.071	7.722	5.490	1.00	0.00
ATOM 223	CG	GLU A	19	140.297	7.134	6.659	1.00	0.00
ATOM 224	CD	GLU A	19	138.960	7.814	6.874	1.00	0.00
ATOM 225	OE1	GLU A	19	138.947	9.047	7.076	1.00	0.00
ATOM 226	OE2	GLU A	19	137.926	7.115	6.841	1.00	0.00
ATOM 227	H	GLU A	19	140.481	5.002	4.610	1.00	0.00
ATOM 228	HA	GLU A	19	142.291	7.167	3.822	1.00	0.00
ATOM 229	1HB	GLU A	19	141.807	8.409	5.883	1.00	0.00
ATOM 230	2HB	GLU A	19	140.379	8.268	4.866	1.00	0.00
ATOM 231	1HG	GLU A	19	140.123	6.086	6.467	1.00	0.00
ATOM 232	2HG	GLU A	19	140.889	7.241	7.556	1.00	0.00
ATOM 233	N	VAL A	20	143.770	6.673	6.027	1.00	0.00
ATOM 234	CA	VAL A	20	144.816	6.085	6.855	1.00	0.00

ATOM 235	C	VAL A	20	144.228	5.443	8.107	1.00	0.00
ATOM 236	O	VAL A	20	143.419	6.052	8.808	1.00	0.00
ATOM 237	CB	VAL A	20	145.861	7.139	7.273	1.00	0.00
ATOM 238	CG1	VAL A	20	147.021	6.481	8.006	1.00	0.00
ATOM 239	CG2	VAL A	20	146.357	7.912	6.061	1.00	0.00
ATOM 240	H	VAL A	20	143.771	7.640	5.871	1.00	0.00
ATOM 241	HA	VAL A	20	145.315	5.326	6.272	1.00	0.00
ATOM 242	HB	VAL A	20	145.387	7.836	7.950	1.00	0.00
ATOM 243	1HG1	VAL A	20	147.265	5.545	7.526	1.00	0.00
ATOM 244	2HG1	VAL A	20	146.740	6.297	9.032	1.00	0.00
ATOM 245	3HG1	VAL A	20	147.880	7.134	7.980	1.00	0.00
ATOM 246	1HG2	VAL A	20	145.663	7.787	5.243	1.00	0.00
ATOM 247	2HG2	VAL A	20	147.328	7.539	5.769	1.00	0.00
ATOM 248	3HG2	VAL A	20	146.434	8.961	6.310	1.00	0.00
ATOM 249	N	GLY A	21	144.638	4.210	8.382	1.00	0.00
ATOM 250	CA	GLY A	21	144.141	3.506	9.549	1.00	0.00
ATOM 251	C	GLY A	21	143.099	2.461	9.198	1.00	0.00
ATOM 252	O	GLY A	21	142.989	1.435	9.867	1.00	0.00
ATOM 253	H	GLY A	21	145.285	3.774	7.786	1.00	0.00
ATOM 254	1HA	GLY A	21	144.971	3.019	10.042	1.00	0.00
ATOM 255	2HA	GLY A	21	143.704	4.221	10.228	1.00	0.00
ATOM 256	N	SER A	22	142.331	2.726	8.146	1.00	0.00
ATOM 257	CA	SER A	22	141.292	1.801	7.707	1.00	0.00
ATOM 258	C	SER A	22	141.866	0.741	6.773	1.00	0.00
ATOM 259	O	SER A	22	142.852	0.981	6.076	1.00	0.00
ATOM 260	CB	SER A	22	140.167	2.563	7.004	1.00	0.00
ATOM 261	OG	SER A	22	139.925	3.810	7.631	1.00	0.00
ATOM 262	H	SER A	22	142.467	3.562	7.652	1.00	0.00
ATOM 263	HA	SER A	22	140.892	1.313	8.583	1.00	0.00

ATOM 264	1HB	SER A	22	140.443	2.739	5.975	1.00	0.00
ATOM 265	2HB	SER A	22	139.262	1.975	7.038	1.00	0.00
ATOM 266	HG	SER A	22	140.662	4.402	7.462	1.00	0.00
ATOM 267	N	LEU A	23	141.242	-0.432	6.764	1.00	0.00
ATOM 268	CA	LEU A	23	141.691	-1.530	5.915	1.00	0.00
ATOM 269	C	LEU A	23	141.197	-1.347	4.483	1.00	0.00
ATOM 270	O	LEU A	23	140.145	-0.753	4.249	1.00	0.00
ATOM 271	CB	LEU A	23	141.196	-2.867	6.470	1.00	0.00
ATOM 272	CG	LEU A	23	141.604	-3.157	7.915	1.00	0.00
ATOM 273	CD1	LEU A	23	140.672	-4.187	8.535	1.00	0.00
ATOM 274	CD2	LEU A	23	143.046	-3.636	7.975	1.00	0.00
ATOM 275	H	LEU A	23	140.461	-0.563	7.341	1.00	0.00
ATOM 276	HA	LEU A	23	142.770	-1.528	5.914	1.00	0.00
ATOM 277	1HB	LEU A	23	140.117	-2.880	6.412	1.00	0.00
ATOM 278	2HB	LEU A	23	141.582	-3.657	5.845	1.00	0.00
ATOM 279	HG	LEU A	23	141.528	-2.248	8.494	1.00	0.00
ATOM 280	1HD1	LEU A	23	139.727	-4.178	8.014	1.00	0.00
ATOM 281	2HD1	LEU A	23	140.512	-3.947	9.576	1.00	0.00
ATOM 282	3HD1	LEU A	23	141.117	-5.168	8.457	1.00	0.00
ATOM 283	1HD2	LEU A	23	143.069	-4.716	7.938	1.00	0.00
ATOM 284	2HD2	LEU A	23	143.501	-3.297	8.893	1.00	0.00
ATOM 285	3HD2	LEU A	23	143.593	-3.237	7.134	1.00	0.00
ATOM 286	N	ALA A	24	141.966	-1.861	3.528	1.00	0.00
ATOM 287	CA	ALA A	24	141.607	-1.755	2.119	1.00	0.00
ATOM 288	C	ALA A	24	142.207	-2.901	1.312	1.00	0.00
ATOM 289	O	ALA A	24	143.207	-3.497	1.710	1.00	0.00
ATOM 290	CB	ALA A	24	142.064	-0.416	1.558	1.00	0.00
ATOM 291	H	ALA A	24	142.794	-2.324	3.777	1.00	0.00
ATOM 292	HA	ALA A	24	140.531	-1.800	2.045	1.00	0.00

ATOM 293	1HB	ALA	A	24	142.180	-0.496	0.488	1.00	0.00
ATOM 294	2HB	ALA	A	24	143.010	-0.144	2.004	1.00	0.00
ATOM 295	3HB	ALA	A	24	141.327	0.340	1.786	1.00	0.00
ATOM 296	N	GLU	A	25	141.589	-3.203	0.174	1.00	0.00
ATOM 297	CA	GLU	A	25	142.062	-4.278	-0.690	1.00	0.00
ATOM 298	C	GLU	A	25	142.338	-3.762	-2.098	1.00	0.00
ATOM 299	O	GLU	A	25	141.676	-2.839	-2.573	1.00	0.00
ATOM 300	CB	GLU	A	25	141.033	-5.409	-0.743	1.00	0.00
ATOM 301	CG	GLU	A	25	141.594	-6.719	-1.273	1.00	0.00
ATOM 302	CD	GLU	A	25	140.616	-7.452	-2.170	1.00	0.00
ATOM 303	OE1	GLU	A	25	140.094	-8.503	-1.745	1.00	0.00
ATOM 304	OE2	GLU	A	25	140.373	-6.974	-3.298	1.00	0.00
ATOM 305	H	GLU	A	25	140.796	-2.691	-0.090	1.00	0.00
ATOM 306	HA	GLU	A	25	142.981	-4.660	-0.273	1.00	0.00
ATOM 307	1HB	GLU	A	25	140.654	-5.582	0.254	1.00	0.00
ATOM 308	2HB	GLU	A	25	140.216	-5.108	-1.382	1.00	0.00
ATOM 309	1HG	GLU	A	25	142.490	-6.509	-1.838	1.00	0.00
ATOM 310	2HG	GLU	A	25	141.839	-7.355	-0.435	1.00	0.00
ATOM 311	N	VAL	A	26	143.320	-4.363	-2.762	1.00	0.00
ATOM 312	CA	VAL	A	26	143.685	-3.963	-4.117	1.00	0.00
ATOM 313	C	VAL	A	26	143.360	-5.066	-5.118	1.00	0.00
ATOM 314	O	VAL	A	26	143.246	-6.236	-4.754	1.00	0.00
ATOM 315	CB	VAL	A	26	145.182	-3.618	-4.218	1.00	0.00
ATOM 316	CG1	VAL	A	26	145.509	-3.044	-5.588	1.00	0.00
ATOM 317	CG2	VAL	A	26	145.584	-2.644	-3.118	1.00	0.00
ATOM 318	H	VAL	A	26	143.812	-5.093	-2.331	1.00	0.00
ATOM 319	HA	VAL	A	26	143.114	-3.081	-4.369	1.00	0.00
ATOM 320	HB	VAL	A	26	145.751	-4.526	-4.088	1.00	0.00
ATOM 321	1HG1	VAL	A	26	144.679	-2.444	-5.935	1.00	0.00

ATOM 322	2HG1	VAL A	26	145.684	-3.851	-6.284	1.00	0.00
ATOM 323	3HG1	VAL A	26	146.394	-2.428	-5.520	1.00	0.00
ATOM 324	1HG2	VAL A	26	146.536	-2.941	-2.704	1.00	0.00
ATOM 325	2HG2	VAL A	26	144.835	-2.653	-2.338	1.00	0.00
ATOM 326	3HG2	VAL A	26	145.664	-1.649	-3.528	1.00	0.00
ATOM 327	N	LYS A	27	143.212	-4.684	-6.384	1.00	0.00
ATOM 328	CA	LYS A	27	142.900	-5.642	-7.439	1.00	0.00
ATOM 329	C	LYS A	27	144.165	-6.072	-8.175	1.00	0.00
ATOM 330	O	LYS A	27	144.162	-6.233	-9.396	1.00	0.00
ATOM 331	CB	LYS A	27	141.902	-5.034	-8.427	1.00	0.00
ATOM 332	CG	LYS A	27	140.894	-6.036	-8.966	1.00	0.00
ATOM 333	CD	LYS A	27	139.575	-5.367	-9.315	1.00	0.00
ATOM 334	CE	LYS A	27	138.895	-6.053	-10.489	1.00	0.00
ATOM 335	NZ	LYS A	27	137.541	-5.492	-10.753	1.00	0.00
ATOM 336	H	LYS A	27	143.314	-3.737	-6.612	1.00	0.00
ATOM 337	HA	LYS A	27	142.453	-6.509	-6.977	1.00	0.00
ATOM 338	1HB	LYS A	27	141.360	-4.242	-7.932	1.00	0.00
ATOM 339	2HB	LYS A	27	142.446	-4.619	-9.261	1.00	0.00
ATOM 340	1HG	LYS A	27	141.299	-6.497	-9.855	1.00	0.00
ATOM 341	2HG	LYS A	27	140.716	-6.793	-8.216	1.00	0.00
ATOM 342	1HD	LYS A	27	138.921	-5.412	-8.457	1.00	0.00
ATOM 343	2HD	LYS A	27	139.764	-4.335	-9.574	1.00	0.00
ATOM 344	1HE	LYS A	27	139.507	-5.924	-11.369	1.00	0.00
ATOM 345	2HE	LYS A	27	138.802	-7.106	-10.268	1.00	0.00
ATOM 346	1HZ	LYS A	27	137.043	-5.325	-9.856	1.00	0.00
ATOM 347	2HZ	LYS A	27	136.985	-6.156	-11.327	1.00	0.00
ATOM 348	3HZ	LYS A	27	137.623	-4.590	-11.266	1.00	0.00
ATOM 349	N	GLU A	28	145.246	-6.258	-7.425	1.00	0.00
ATOM 350	CA	GLU A	28	146.518	-6.670	-8.006	1.00	0.00

ATOM 351	C	GLU A	28	146.536	-8.173	-8.267	1.00	0.00
ATOM 352	O	GLU A	28	145.548	-8.866	-8.026	1.00	0.00
ATOM 353	CB	GLU A	28	147.676	-6.285	-7.081	1.00	0.00
ATOM 354	CG	GLU A	28	148.812	-5.570	-7.793	1.00	0.00
ATOM 355	CD	GLU A	28	149.849	-5.024	-6.832	1.00	0.00
ATOM 356	OE1	GLU A	28	149.665	-3.890	-6.341	1.00	0.00
ATOM 357	OE2	GLU A	28	150.846	-5.729	-6.570	1.00	0.00
ATOM 358	H	GLU A	28	145.188	-6.114	-6.457	1.00	0.00
ATOM 359	HA	GLU A	28	146.635	-6.153	-8.947	1.00	0.00
ATOM 360	1HB	GLU A	28	147.299	-5.634	-6.306	1.00	0.00
ATOM 361	2HB	GLU A	28	148.071	-7.181	-6.624	1.00	0.00
ATOM 362	1HG	GLU A	28	149.295	-6.267	-8.462	1.00	0.00
ATOM 363	2HG	GLU A	28	148.402	-4.750	-8.363	1.00	0.00
ATOM 364	N	ASN A	29	147.665	-8.670	-8.759	1.00	0.00
ATOM 365	CA	ASN A	29	147.812	-10.091	-9.051	1.00	0.00
ATOM 366	C	ASN A	29	147.742	-10.920	-7.771	1.00	0.00
ATOM 367	O	ASN A	29	146.888	-11.796	-7.635	1.00	0.00
ATOM 368	CB	ASN A	29	149.137	-10.351	-9.771	1.00	0.00
ATOM 369	CG	ASN A	29	148.975	-10.405	-11.278	1.00	0.00
ATOM 370	OD1	ASN A	29	148.949	-11.483	-11.873	1.00	0.00
ATOM 371	ND2	ASN A	29	148.866	-9.238	-11.903	1.00	0.00
ATOM 372	H	ASN A	29	148.419	-8.067	-8.930	1.00	0.00
ATOM 373	HA	ASN A	29	146.998	-10.381	-9.698	1.00	0.00
ATOM 374	1HB	ASN A	29	149.832	-9.559	-9.532	1.00	0.00
ATOM 375	2HB	ASN A	29	149.543	-11.294	-9.436	1.00	0.00
ATOM 376	1HD2	ASN A	29	148.895	-8.420	-11.365	1.00	0.00
ATOM 377	2HD2	ASN A	29	148.759	-9.244	-12.877	1.00	0.00
ATOM 378	N	PRO A	30	148.644	-10.654	-6.810	1.00	0.00
ATOM 379	CA	PRO A	30	148.679	-11.379	-5.538	1.00	0.00

ATOM 380	C	PRO A	30	147.577	-10.926	-4.581	1.00	0.00
ATOM 381	O	PRO A	30	147.624	-9.814	-4.054	1.00	0.00
ATOM 382	CB	PRO A	30	150.055	-11.023	-4.975	1.00	0.00
ATOM 383	CG	PRO A	30	150.347	-9.672	-5.528	1.00	0.00
ATOM 384	CD	PRO A	30	149.700	-9.624	-6.887	1.00	0.00
ATOM 385	HA	PRO A	30	148.614	-12.446	-5.688	1.00	0.00
ATOM 386	1HB	PRO A	30	150.013	-11.010	-3.896	1.00	0.00
ATOM 387	2HB	PRO A	30	150.781	-11.751	-5.305	1.00	0.00
ATOM 388	1HG	PRO A	30	149.925	-8.913	-4.886	1.00	0.00
ATOM 389	2HG	PRO A	30	151.415	-9.536	-5.618	1.00	0.00
ATOM 390	1HD	PRO A	30	149.273	-8.649	-7.067	1.00	0.00
ATOM 391	2HD	PRO A	30	150.418	-9.867	-7.656	1.00	0.00
ATOM 392	N	PRO A	31	146.566	-11.781	-4.340	1.00	0.00
ATOM 393	CA	PRO A	31	145.456	-11.452	-3.440	1.00	0.00
ATOM 394	C	PRO A	31	145.899	-11.362	-1.984	1.00	0.00
ATOM 395	O	PRO A	31	145.964	-12.370	-1.281	1.00	0.00
ATOM 396	CB	PRO A	31	144.481	-12.617	-3.631	1.00	0.00
ATOM 397	CG	PRO A	31	145.328	-13.747	-4.103	1.00	0.00
ATOM 398	CD	PRO A	31	146.425	-13.129	-4.923	1.00	0.00
ATOM 399	HA	PRO A	31	144.977	-10.527	-3.727	1.00	0.00
ATOM 400	1HB	PRO A	31	144.002	-12.846	-2.691	1.00	0.00
ATOM 401	2HB	PRO A	31	143.736	-12.350	-4.366	1.00	0.00
ATOM 402	1HG	PRO A	31	145.744	-14.273	-3.255	1.00	0.00
ATOM 403	2HG	PRO A	31	144.739	-14.419	-4.710	1.00	0.00
ATOM 404	1HD	PRO A	31	147.339	-13.694	-4.817	1.00	0.00
ATOM 405	2HD	PRO A	31	146.134	-13.071	-5.961	1.00	0.00
ATOM 406	N	PHE A	32	146.203	-10.148	-1.538	1.00	0.00
ATOM 407	CA	PHE A	32	146.641	-9.923	-0.166	1.00	0.00
ATOM 408	C	PHE A	32	145.724	-8.933	0.544	1.00	0.00

ATOM 409	O	PHE A	32	144.840	-8.338	-0.074	1.00	0.00
ATOM 410	CB	PHE A	32	148.080	-9.407	-0.145	1.00	0.00
ATOM 411	CG	PHE A	32	148.292	-8.187	-0.997	1.00	0.00
ATOM 412	CD1	PHE A	32	149.042	-8.259	-2.158	1.00	0.00
ATOM 413	CD2	PHE A	32	147.740	-6.969	-0.633	1.00	0.00
ATOM 414	CE1	PHE A	32	149.238	-7.138	-2.944	1.00	0.00
ATOM 415	CE2	PHE A	32	147.932	-5.845	-1.414	1.00	0.00
ATOM 416	CZ	PHE A	32	148.682	-5.930	-2.571	1.00	0.00
ATOM 417	H	PHE A	32	146.131	-9.382	-2.147	1.00	0.00
ATOM 418	HA	PHE A	32	146.601	-10.869	0.354	1.00	0.00
ATOM 419	1HB	PHE A	32	148.351	-9.154	0.869	1.00	0.00
ATOM 420	2HB	PHE A	32	148.739	-10.183	-0.506	1.00	0.00
ATOM 421	HD1	PHE A	32	149.478	-9.203	-2.451	1.00	0.00
ATOM 422	HD2	PHE A	32	147.153	-6.901	0.271	1.00	0.00
ATOM 423	HE1	PHE A	32	149.826	-7.207	-3.848	1.00	0.00
ATOM 424	HE2	PHE A	32	147.496	-4.902	-1.121	1.00	0.00
ATOM 425	HZ	PHE A	32	148.833	-5.053	-3.183	1.00	0.00
ATOM 426	N	TYR A	33	145.939	-8.760	1.844	1.00	0.00
ATOM 427	CA	TYR A	33	145.131	-7.841	2.637	1.00	0.00
ATOM 428	C	TYR A	33	146.016	-6.929	3.481	1.00	0.00
ATOM 429	O	TYR A	33	146.804	-7.398	4.302	1.00	0.00
ATOM 430	CB	TYR A	33	144.174	-8.620	3.540	1.00	0.00
ATOM 431	CG	TYR A	33	143.008	-9.236	2.800	1.00	0.00
ATOM 432	CD1	TYR A	33	142.205	-8.467	1.967	1.00	0.00
ATOM 433	CD2	TYR A	33	142.710	-10.586	2.936	1.00	0.00
ATOM 434	CE1	TYR A	33	141.138	-9.026	1.290	1.00	0.00
ATOM 435	CE2	TYR A	33	141.645	-11.152	2.261	1.00	0.00
ATOM 436	CZ	TYR A	33	140.862	-10.369	1.439	1.00	0.00
ATOM 437	OH	TYR A	33	139.801	-10.929	0.767	1.00	0.00

ATOM 438	H	TYR A	33	146.658	-9.263	2.280	1.00	0.00
ATOM 439	HA	TYR A	33	144.555	-7.234	1.955	1.00	0.00
ATOM 440	1HB	TYR A	33	144.716	-9.418	4.026	1.00	0.00
ATOM 441	2HB	TYR A	33	143.777	-7.954	4.292	1.00	0.00
ATOM 442	HD1	TYR A	33	142.424	-7.416	1.852	1.00	0.00
ATOM 443	HD2	TYR A	33	143.324	-11.198	3.580	1.00	0.00
ATOM 444	HE1	TYR A	33	140.526	-8.412	0.646	1.00	0.00
ATOM 445	HE2	TYR A	33	141.429	-12.204	2.379	1.00	0.00
ATOM 446	HH	TYR A	33	139.049	-11.001	1.359	1.00	0.00
ATOM 447	N	GLY A	34	145.880	-5.623	3.273	1.00	0.00
ATOM 448	CA	GLY A	34	146.673	-4.667	4.022	1.00	0.00
ATOM 449	C	GLY A	34	145.866	-3.460	4.458	1.00	0.00
ATOM 450	O	GLY A	34	144.754	-3.241	3.978	1.00	0.00
ATOM 451	H	GLY A	34	145.235	-5.307	2.606	1.00	0.00
ATOM 452	1HA	GLY A	34	147.072	-5.156	4.898	1.00	0.00
ATOM 453	2HA	GLY A	34	147.493	-4.333	3.403	1.00	0.00
ATOM 454	N	VAL A	35	146.428	-2.675	5.373	1.00	0.00
ATOM 455	CA	VAL A	35	145.754	-1.484	5.875	1.00	0.00
ATOM 456	C	VAL A	35	146.411	-0.215	5.340	1.00	0.00
ATOM 457	O	VAL A	35	147.621	-0.176	5.121	1.00	0.00
ATOM 458	CB	VAL A	35	145.756	-1.446	7.417	1.00	0.00
ATOM 459	CG1	VAL A	35	147.180	-1.401	7.951	1.00	0.00
ATOM 460	CG2	VAL A	35	144.950	-0.261	7.926	1.00	0.00
ATOM 461	H	VAL A	35	147.317	-2.902	5.717	1.00	0.00
ATOM 462	HA	VAL A	35	144.728	-1.515	5.539	1.00	0.00
ATOM 463	HB	VAL A	35	145.291	-2.351	7.779	1.00	0.00
ATOM 464	1HG1	VAL A	35	147.699	-2.306	7.670	1.00	0.00
ATOM 465	2HG1	VAL A	35	147.158	-1.319	9.028	1.00	0.00
ATOM 466	3HG1	VAL A	35	147.694	-0.547	7.534	1.00	0.00

ATOM 467	1HG2	VAL	A	35	145.306	0.645	7.457	1.00	0.00
ATOM 468	2HG2	VAL	A	35	145.064	-0.180	8.996	1.00	0.00
ATOM 469	3HG2	VAL	A	35	143.907	-0.405	7.685	1.00	0.00
ATOM 470	N	ILE	A	36	145.604	0.821	5.134	1.00	0.00
ATOM 471	CA	ILE	A	36	146.108	2.091	4.625	1.00	0.00
ATOM 472	C	ILE	A	36	147.069	2.736	5.619	1.00	0.00
ATOM 473	O	ILE	A	36	146.838	2.711	6.827	1.00	0.00
ATOM 474	CB	ILE	A	36	144.959	3.074	4.326	1.00	0.00
ATOM 475	CG1	ILE	A	36	143.910	2.412	3.430	1.00	0.00
ATOM 476	CG2	ILE	A	36	145.497	4.338	3.673	1.00	0.00
ATOM 477	CD1	ILE	A	36	142.744	3.315	3.095	1.00	0.00
ATOM 478	H	ILE	A	36	144.649	0.729	5.329	1.00	0.00
ATOM 479	HA	ILE	A	36	146.636	1.895	3.704	1.00	0.00
ATOM 480	HB	ILE	A	36	144.498	3.351	5.263	1.00	0.00
ATOM 481	1HG1	ILE	A	36	144.376	2.114	2.502	1.00	0.00
ATOM 482	2HG1	ILE	A	36	143.520	1.537	3.929	1.00	0.00
ATOM 483	1HG2	ILE	A	36	146.117	4.072	2.830	1.00	0.00
ATOM 484	2HG2	ILE	A	36	146.084	4.893	4.390	1.00	0.00
ATOM 485	3HG2	ILE	A	36	144.673	4.949	3.335	1.00	0.00
ATOM 486	1HD1	ILE	A	36	143.048	4.347	3.190	1.00	0.00
ATOM 487	2HD1	ILE	A	36	141.927	3.116	3.772	1.00	0.00
ATOM 488	3HD1	ILE	A	36	142.423	3.126	2.080	1.00	0.00
ATOM 489	N	ARG	A	37	148.149	3.311	5.101	1.00	0.00
ATOM 490	CA	ARG	A	37	149.147	3.962	5.942	1.00	0.00
ATOM 491	C	ARG	A	37	149.368	5.408	5.509	1.00	0.00
ATOM 492	O	ARG	A	37	149.156	6.337	6.286	1.00	0.00
ATOM 493	CB	ARG	A	37	150.470	3.194	5.888	1.00	0.00
ATOM 494	CG	ARG	A	37	150.333	1.721	6.234	1.00	0.00
ATOM 495	CD	ARG	A	37	149.761	1.528	7.630	1.00	0.00

ATOM 496	NE	ARG A	37	150.620	2.110	8.658	1.00	0.00
ATOM 497	CZ	ARG A	37	150.211	2.390	9.894	1.00	0.00
ATOM 498	NH1	ARG A	37	148.959	2.143	10.258	1.00	0.00
ATOM 499	NH2	ARG A	37	151.057	2.917	10.769	1.00	0.00
ATOM 500	H	ARG A	37	148.278	3.298	4.129	1.00	0.00
ATOM 501	HA	ARG A	37	148.779	3.955	6.958	1.00	0.00
ATOM 502	1HB	ARG A	37	150.876	3.271	4.890	1.00	0.00
ATOM 503	2HB	ARG A	37	151.162	3.644	6.584	1.00	0.00
ATOM 504	1HG	ARG A	37	149.674	1.252	5.519	1.00	0.00
ATOM 505	2HG	ARG A	37	151.308	1.258	6.187	1.00	0.00
ATOM 506	1HD	ARG A	37	148.791	2.000	7.676	1.00	0.00
ATOM 507	2HD	ARG A	37	149.655	0.470	7.818	1.00	0.00
ATOM 508	HE	ARG A	37	151.550	2.303	8.417	1.00	0.00
ATOM 509	1HH1	ARG A	37	148.316	1.745	9.604	1.00	0.00
ATOM 510	2HH1	ARG A	37	148.658	2.355	11.188	1.00	0.00
ATOM 511	1HH2	ARG A	37	152.002	3.105	10.500	1.00	0.00
ATOM 512	2HH2	ARG A	37	150.750	3.127	11.697	1.00	0.00
ATOM 513	N	TRP A	38	149.794	5.590	4.263	1.00	0.00
ATOM 514	CA	TRP A	38	150.043	6.924	3.730	1.00	0.00
ATOM 515	C	TRP A	38	149.298	7.137	2.415	1.00	0.00
ATOM 516	O	TRP A	38	149.328	6.287	1.526	1.00	0.00
ATOM 517	CB	TRP A	38	151.546	7.142	3.521	1.00	0.00
ATOM 518	CG	TRP A	38	151.871	8.390	2.752	1.00	0.00
ATOM 519	CD1	TRP A	38	152.099	9.635	3.264	1.00	0.00
ATOM 520	CD2	TRP A	38	151.999	8.511	1.330	1.00	0.00
ATOM 521	NE1	TRP A	38	152.360	10.523	2.248	1.00	0.00
ATOM 522	CE2	TRP A	38	152.305	9.856	1.051	1.00	0.00
ATOM 523	CE3	TRP A	38	151.885	7.612	0.266	1.00	0.00
ATOM 524	CZ2	TRP A	38	152.498	10.322	-0.248	1.00	0.00

ATOM 525	CZ3	TRP A	38	152.078	8.075	-1.022	1.00	0.00
ATOM 526	CH2	TRP A	38	152.381	9.419	-1.270	1.00	0.00
ATOM 527	H	TRP A	38	149.946	4.810	3.690	1.00	0.00
ATOM 528	HA	TRP A	38	149.683	7.642	4.452	1.00	0.00
ATOM 529	1HB	TRP A	38	152.030	7.211	4.484	1.00	0.00
ATOM 530	2HB	TRP A	38	151.953	6.301	2.979	1.00	0.00
ATOM 531	HD1	TRP A	38	152.072	9.873	4.317	1.00	0.00
ATOM 532	HE1	TRP A	38	152.555	11.475	2.361	1.00	0.00
ATOM 533	HE3	TRP A	38	151.652	6.572	0.437	1.00	0.00
ATOM 534	HZ2	TRP A	38	152.730	11.356	-0.456	1.00	0.00
ATOM 535	HZ3	TRP A	38	151.994	7.394	-1.856	1.00	0.00
ATOM 536	HH2	TRP A	38	152.524	9.737	-2.293	1.00	0.00
ATOM 537	N	ILE A	39	148.639	8.285	2.299	1.00	0.00
ATOM 538	CA	ILE A	39	147.894	8.625	1.094	1.00	0.00
ATOM 539	C	ILE A	39	148.358	9.967	0.540	1.00	0.00
ATOM 540	O	ILE A	39	148.049	11.018	1.101	1.00	0.00
ATOM 541	CB	ILE A	39	146.379	8.686	1.364	1.00	0.00
ATOM 542	CG1	ILE A	39	145.915	7.420	2.087	1.00	0.00
ATOM 543	CG2	ILE A	39	145.614	8.869	0.061	1.00	0.00
ATOM 544	CD1	ILE A	39	144.605	7.591	2.824	1.00	0.00
ATOM 545	H	ILE A	39	148.663	8.925	3.041	1.00	0.00
ATOM 546	HA	ILE A	39	148.080	7.857	0.357	1.00	0.00
ATOM 547	HB	ILE A	39	146.182	9.543	1.991	1.00	0.00
ATOM 548	1HG1	ILE A	39	145.788	6.627	1.366	1.00	0.00
ATOM 549	2HG1	ILE A	39	146.666	7.128	2.807	1.00	0.00
ATOM 550	1HG2	ILE A	39	145.691	7.968	-0.530	1.00	0.00
ATOM 551	2HG2	ILE A	39	146.034	9.697	-0.489	1.00	0.00
ATOM 552	3HG2	ILE A	39	144.576	9.070	0.279	1.00	0.00
ATOM 553	1HD1	ILE A	39	144.518	8.609	3.174	1.00	0.00

ATOM 554	2HD1	ILE A	39	144.577	6.917	3.668	1.00	0.00
ATOM 555	3HD1	ILE A	39	143.785	7.369	2.158	1.00	0.00
ATOM 556	N	GLY A	40	149.108	9.926	-0.555	1.00	0.00
ATOM 557	CA	GLY A	40	149.607	11.150	-1.153	1.00	0.00
ATOM 558	C	GLY A	40	150.146	10.941	-2.554	1.00	0.00
ATOM 559	O	GLY A	40	149.952	9.882	-3.152	1.00	0.00
ATOM 560	H	GLY A	40	149.329	9.060	-0.958	1.00	0.00
ATOM 561	1HA	GLY A	40	148.806	11.871	-1.192	1.00	0.00
ATOM 562	2HA	GLY A	40	150.397	11.541	-0.532	1.00	0.00
ATOM 563	N	GLN A	41	150.820	11.958	-3.078	1.00	0.00
ATOM 564	CA	GLN A	41	151.389	11.894	-4.417	1.00	0.00
ATOM 565	C	GLN A	41	152.862	12.299	-4.398	1.00	0.00
ATOM 566	O	GLN A	41	153.193	13.443	-4.086	1.00	0.00
ATOM 567	CB	GLN A	41	150.606	12.808	-5.358	1.00	0.00
ATOM 568	CG	GLN A	41	149.100	12.628	-5.266	1.00	0.00
ATOM 569	CD	GLN A	41	148.352	13.944	-5.322	1.00	0.00
ATOM 570	OE1	GLN A	41	148.345	14.710	-4.359	1.00	0.00
ATOM 571	NE2	GLN A	41	147.717	14.213	-6.456	1.00	0.00
ATOM 572	H	GLN A	41	150.936	12.775	-2.551	1.00	0.00
ATOM 573	HA	GLN A	41	151.306	10.876	-4.766	1.00	0.00
ATOM 574	1HB	GLN A	41	150.839	13.835	-5.119	1.00	0.00
ATOM 575	2HB	GLN A	41	150.912	12.607	-6.372	1.00	0.00
ATOM 576	1HG	GLN A	41	148.772	12.011	-6.089	1.00	0.00
ATOM 577	2HG	GLN A	41	148.865	12.137	-4.333	1.00	0.00
ATOM 578	1HE2	GLN A	41	147.767	13.556	-7.179	1.00	0.00
ATOM 579	2HE2	GLN A	41	147.226	15.059	-6.523	1.00	0.00
ATOM 580	N	PRO A	42	153.773	11.365	-4.729	1.00	0.00
ATOM 581	CA	PRO A	42	155.214	11.639	-4.743	1.00	0.00
ATOM 582	C	PRO A	42	155.575	12.795	-5.670	1.00	0.00

ATOM 583	O	PRO A	42	154.809	13.143	-6.569	1.00	0.00
ATOM 584	CB	PRO A	42	155.827	10.332	-5.257	1.00	0.00
ATOM 585	CG	PRO A	42	154.804	9.291	-4.963	1.00	0.00
ATOM 586	CD	PRO A	42	153.476	9.973	-5.113	1.00	0.00
ATOM 587	HA	PRO A	42	155.585	11.847	-3.750	1.00	0.00
ATOM 588	1HB	PRO A	42	156.016	10.414	-6.318	1.00	0.00
ATOM 589	2HB	PRO A	42	156.751	10.134	-4.734	1.00	0.00
ATOM 590	1HG	PRO A	42	154.890	8.479	-5.669	1.00	0.00
ATOM 591	2HG	PRO A	42	154.927	8.927	-3.953	1.00	0.00
ATOM 592	1HD	PRO A	42	153.137	9.919	-6.137	1.00	0.00
ATOM 593	2HD	PRO A	42	152.747	9.536	-4.447	1.00	0.00
ATOM 594	N	PRO A	43	156.753	13.407	-5.462	1.00	0.00
ATOM 595	CA	PRO A	43	157.213	14.530	-6.284	1.00	0.00
ATOM 596	C	PRO A	43	157.626	14.090	-7.683	1.00	0.00
ATOM 597	O	PRO A	43	158.795	13.796	-7.932	1.00	0.00
ATOM 598	CB	PRO A	43	158.423	15.058	-5.515	1.00	0.00
ATOM 599	CG	PRO A	43	158.933	13.883	-4.755	1.00	0.00
ATOM 600	CD	PRO A	43	157.726	13.053	-4.412	1.00	0.00
ATOM 601	HA	PRO A	43	156.462	15.302	-6.357	1.00	0.00
ATOM 602	1HB	PRO A	43	159.160	15.428	-6.213	1.00	0.00
ATOM 603	2HB	PRO A	43	158.114	15.853	-4.853	1.00	0.00
ATOM 604	1HG	PRO A	43	159.615	13.316	-5.371	1.00	0.00
ATOM 605	2HG	PRO A	43	159.427	14.216	-3.854	1.00	0.00
ATOM 606	1HD	PRO A	43	157.968	12.001	-4.451	1.00	0.00
ATOM 607	2HD	PRO A	43	157.350	13.319	-3.435	1.00	0.00
ATOM 608	N	GLY A	44	156.661	14.046	-8.594	1.00	0.00
ATOM 609	CA	GLY A	44	156.948	13.641	-9.955	1.00	0.00
ATOM 610	C	GLY A	44	155.719	13.142	-10.686	1.00	0.00
ATOM 611	O	GLY A	44	155.429	13.581	-11.798	1.00	0.00

ATOM 612	H	GLY A	44	155.746	14.291	-8.339	1.00	0.00
ATOM 613	1HA	GLY A	44	157.353	14.485	-10.492	1.00	0.00
ATOM 614	2HA	GLY A	44	157.686	12.852	-9.937	1.00	0.00
ATOM 615	N	LEU A	45	154.993	12.221	-10.061	1.00	0.00
ATOM 616	CA	LEU A	45	153.788	11.663	-10.664	1.00	0.00
ATOM 617	C	LEU A	45	152.574	11.905	-9.775	1.00	0.00
ATOM 618	O	LEU A	45	152.479	11.353	-8.678	1.00	0.00
ATOM 619	CB	LEU A	45	153.963	10.164	-10.912	1.00	0.00
ATOM 620	CG	LEU A	45	154.528	9.373	-9.731	1.00	0.00
ATOM 621	CD1	LEU A	45	154.196	7.893	-9.869	1.00	0.00
ATOM 622	CD2	LEU A	45	156.033	9.581	-9.623	1.00	0.00
ATOM 623	H	LEU A	45	155.274	11.910	-9.172	1.00	0.00
ATOM 624	HA	LEU A	45	153.631	12.160	-11.609	1.00	0.00
ATOM 625	1HB	LEU A	45	152.999	9.749	-11.171	1.00	0.00
ATOM 626	2HB	LEU A	45	154.627	10.036	-11.753	1.00	0.00
ATOM 627	HG	LEU A	45	154.074	9.733	-8.819	1.00	0.00
ATOM 628	1HD1	LEU A	45	155.108	7.328	-9.994	1.00	0.00
ATOM 629	2HD1	LEU A	45	153.559	7.745	-10.729	1.00	0.00
ATOM 630	3HD1	LEU A	45	153.683	7.556	-8.980	1.00	0.00
ATOM 631	1HD2	LEU A	45	156.520	8.626	-9.487	1.00	0.00
ATOM 632	2HD2	LEU A	45	156.249	10.218	-8.778	1.00	0.00
ATOM 633	3HD2	LEU A	45	156.399	10.046	-10.527	1.00	0.00
ATOM 634	N	ASN A	46	151.645	12.727	-10.251	1.00	0.00
ATOM 635	CA	ASN A	46	150.441	13.026	-9.488	1.00	0.00
ATOM 636	C	ASN A	46	149.495	11.831	-9.497	1.00	0.00
ATOM 637	O	ASN A	46	148.874	11.524	-10.514	1.00	0.00
ATOM 638	CB	ASN A	46	149.739	14.255	-10.072	1.00	0.00
ATOM 639	CG	ASN A	46	148.563	14.706	-9.230	1.00	0.00
ATOM 640	OD1	ASN A	46	148.686	15.612	-8.405	1.00	0.00

ATOM 641	ND2	ASN A	46	147.412	14.076	-9.434	1.00	0.00
ATOM 642	H	ASN A	46	151.772	13.136	-11.132	1.00	0.00
ATOM 643	HA	ASN A	46	150.733	13.235	-8.470	1.00	0.00
ATOM 644	1HB	ASN A	46	150.446	15.069	-10.133	1.00	0.00
ATOM 645	2HB	ASN A	46	149.380	14.019	-11.063	1.00	0.00
ATOM 646	1HD2	ASN A	46	147.388	13.364	-10.107	1.00	0.00
ATOM 647	2HD2	ASN A	46	146.634	14.347	-8.904	1.00	0.00
ATOM 648	N	GLU A	47	149.392	11.160	-8.355	1.00	0.00
ATOM 649	CA	GLU A	47	148.524	9.997	-8.225	1.00	0.00
ATOM 650	C	GLU A	47	148.343	9.616	-6.760	1.00	0.00
ATOM 651	O	GLU A	47	149.314	9.320	-6.062	1.00	0.00
ATOM 652	CB	GLU A	47	149.102	8.811	-9.002	1.00	0.00
ATOM 653	CG	GLU A	47	150.614	8.691	-8.904	1.00	0.00
ATOM 654	CD	GLU A	47	151.193	7.746	-9.937	1.00	0.00
ATOM 655	OE1	GLU A	47	151.247	8.126	-11.126	1.00	0.00
ATOM 656	OE2	GLU A	47	151.593	6.624	-9.558	1.00	0.00
ATOM 657	H	GLU A	47	149.915	11.454	-7.580	1.00	0.00
ATOM 658	HA	GLU A	47	147.562	10.254	-8.639	1.00	0.00
ATOM 659	1HB	GLU A	47	148.664	7.899	-8.623	1.00	0.00
ATOM 660	2HB	GLU A	47	148.839	8.918	-10.045	1.00	0.00
ATOM 661	1HG	GLU A	47	151.050	9.668	-9.048	1.00	0.00
ATOM 662	2HG	GLU A	47	150.871	8.326	-7.919	1.00	0.00
ATOM 663	N	VAL A	48	147.098	9.615	-6.297	1.00	0.00
ATOM 664	CA	VAL A	48	146.805	9.258	-4.915	1.00	0.00
ATOM 665	C	VAL A	48	147.146	7.796	-4.656	1.00	0.00
ATOM 666	O	VAL A	48	146.386	6.897	-5.018	1.00	0.00
ATOM 667	CB	VAL A	48	145.323	9.499	-4.571	1.00	0.00
ATOM 668	CG1	VAL A	48	145.083	9.313	-3.081	1.00	0.00
ATOM 669	CG2	VAL A	48	144.890	10.887	-5.018	1.00	0.00

ATOM 670	H	VAL A	48	146.361	9.852	-6.898	1.00	0.00
ATOM 671	HA	VAL A	48	147.412	9.879	-4.272	1.00	0.00
ATOM 672	HB	VAL A	48	144.727	8.771	-5.102	1.00	0.00
ATOM 673	1HG1	VAL A	48	144.209	9.875	-2.784	1.00	0.00
ATOM 674	2HG1	VAL A	48	145.942	9.666	-2.530	1.00	0.00
ATOM 675	3HG1	VAL A	48	144.926	8.266	-2.869	1.00	0.00
ATOM 676	1HG2	VAL A	48	145.750	11.539	-5.052	1.00	0.00
ATOM 677	2HG2	VAL A	48	144.166	11.281	-4.321	1.00	0.00
ATOM 678	3HG2	VAL A	48	144.447	10.826	-6.002	1.00	0.00
ATOM 679	N	LEU A	49	148.295	7.563	-4.031	1.00	0.00
ATOM 680	CA	LEU A	49	148.739	6.208	-3.730	1.00	0.00
ATOM 681	C	LEU A	49	148.632	5.922	-2.238	1.00	0.00
ATOM 682	O	LEU A	49	149.299	6.560	-1.424	1.00	0.00
ATOM 683	CB	LEU A	49	150.182	6.006	-4.198	1.00	0.00
ATOM 684	CG	LEU A	49	150.428	6.287	-5.680	1.00	0.00
ATOM 685	CD1	LEU A	49	151.849	6.781	-5.902	1.00	0.00
ATOM 686	CD2	LEU A	49	150.158	5.040	-6.509	1.00	0.00
ATOM 687	H	LEU A	49	148.860	8.319	-3.769	1.00	0.00
ATOM 688	HA	LEU A	49	148.099	5.522	-4.264	1.00	0.00
ATOM 689	1HB	LEU A	49	150.820	6.658	-3.618	1.00	0.00
ATOM 690	2HB	LEU A	49	150.464	4.984	-3.996	1.00	0.00
ATOM 691	HG	LEU A	49	149.750	7.062	-6.010	1.00	0.00
ATOM 692	1HD1	LEU A	49	152.547	6.036	-5.550	1.00	0.00
ATOM 693	2HD1	LEU A	49	151.999	7.702	-5.358	1.00	0.00
ATOM 694	3HD1	LEU A	49	152.009	6.954	-6.956	1.00	0.00
ATOM 695	1HD2	LEU A	49	150.289	4.162	-5.893	1.00	0.00
ATOM 696	2HD2	LEU A	49	150.848	5.003	-7.339	1.00	0.00
ATOM 697	3HD2	LEU A	49	149.146	5.069	-6.884	1.00	0.00
ATOM 698	N	ALA A	50	147.787	4.960	-1.886	1.00	0.00

ATOM 699	CA	ALA A	50	147.594	4.594	-0.491	1.00	0.00
ATOM 700	C	ALA A	50	148.531	3.460	-0.087	1.00	0.00
ATOM 701	O	ALA A	50	148.422	2.343	-0.593	1.00	0.00
ATOM 702	CB	ALA A	50	146.146	4.201	-0.243	1.00	0.00
ATOM 703	H	ALA A	50	147.282	4.487	-2.581	1.00	0.00
ATOM 704	HA	ALA A	50	147.815	5.463	0.111	1.00	0.00
ATOM 705	1HB	ALA A	50	145.605	5.046	0.156	1.00	0.00
ATOM 706	2HB	ALA A	50	146.110	3.384	0.464	1.00	0.00
ATOM 707	3HB	ALA A	50	145.693	3.891	-1.174	1.00	0.00
ATOM 708	N	GLY A	51	149.450	3.755	0.827	1.00	0.00
ATOM 709	CA	GLY A	51	150.391	2.748	1.282	1.00	0.00
ATOM 710	C	GLY A	51	149.725	1.666	2.108	1.00	0.00
ATOM 711	O	GLY A	51	149.237	1.926	3.208	1.00	0.00
ATOM 712	H	GLY A	51	149.488	4.662	1.195	1.00	0.00
ATOM 713	1HA	GLY A	51	150.860	2.293	0.422	1.00	0.00
ATOM 714	2HA	GLY A	51	151.151	3.228	1.882	1.00	0.00
ATOM 715	N	LEU A	52	149.706	0.446	1.578	1.00	0.00
ATOM 716	CA	LEU A	52	149.094	-0.678	2.275	1.00	0.00
ATOM 717	C	LEU A	52	150.156	-1.557	2.930	1.00	0.00
ATOM 718	O	LEU A	52	151.144	-1.930	2.298	1.00	0.00
ATOM 719	CB	LEU A	52	148.255	-1.510	1.303	1.00	0.00
ATOM 720	CG	LEU A	52	147.027	-0.797	0.733	1.00	0.00
ATOM 721	CD1	LEU A	52	146.656	-1.374	-0.623	1.00	0.00
ATOM 722	CD2	LEU A	52	145.856	-0.901	1.699	1.00	0.00
ATOM 723	H	LEU A	52	150.112	0.301	0.699	1.00	0.00
ATOM 724	HA	LEU A	52	148.449	-0.281	3.043	1.00	0.00
ATOM 725	1HB	LEU A	52	148.886	-1.809	0.479	1.00	0.00
ATOM 726	2HB	LEU A	52	147.920	-2.398	1.818	1.00	0.00
ATOM 727	HG	LEU A	52	147.257	0.250	0.599	1.00	0.00

ATOM 728	1HD1	LEU A	52	146.232	-0.597	-1.241	1.00	0.00
ATOM 729	2HD1	LEU A	52	145.932	-2.164	-0.491	1.00	0.00
ATOM 730	3HD1	LEU A	52	147.540	-1.772	-1.100	1.00	0.00
ATOM 731	1HD2	LEU A	52	145.091	-0.194	1.415	1.00	0.00
ATOM 732	2HD2	LEU A	52	146.195	-0.683	2.701	1.00	0.00
ATOM 733	3HD2	LEU A	52	145.451	-1.902	1.665	1.00	0.00
ATOM 734	N	GLU A	53	149.943	-1.883	4.200	1.00	0.00
ATOM 735	CA	GLU A	53	150.879	-2.718	4.942	1.00	0.00
ATOM 736	C	GLU A	53	150.370	-4.152	5.040	1.00	0.00
ATOM 737	O	GLU A	53	149.391	-4.428	5.733	1.00	0.00
ATOM 738	CB	GLU A	53	151.104	-2.147	6.344	1.00	0.00
ATOM 739	CG	GLU A	53	152.097	-2.944	7.174	1.00	0.00
ATOM 740	CD	GLU A	53	151.658	-3.099	8.617	1.00	0.00
ATOM 741	OE1	GLU A	53	152.533	-3.087	9.508	1.00	0.00
ATOM 742	OE2	GLU A	53	150.440	-3.234	8.856	1.00	0.00
ATOM 743	H	GLU A	53	149.136	-1.555	4.650	1.00	0.00
ATOM 744	HA	GLU A	53	151.818	-2.717	4.409	1.00	0.00
ATOM 745	1HB	GLU A	53	151.471	-1.135	6.254	1.00	0.00
ATOM 746	2HB	GLU A	53	150.160	-2.132	6.869	1.00	0.00
ATOM 747	1HG	GLU A	53	152.204	-3.926	6.738	1.00	0.00
ATOM 748	2HG	GLU A	53	153.050	-2.436	7.156	1.00	0.00
ATOM 749	N	LEU A	54	151.041	-5.061	4.341	1.00	0.00
ATOM 750	CA	LEU A	54	150.656	-6.467	4.348	1.00	0.00
ATOM 751	C	LEU A	54	150.899	-7.091	5.718	1.00	0.00
ATOM 752	O	LEU A	54	151.876	-6.768	6.394	1.00	0.00
ATOM 753	CB	LEU A	54	151.434	-7.236	3.279	1.00	0.00
ATOM 754	CG	LEU A	54	151.427	-6.598	1.888	1.00	0.00
ATOM 755	CD1	LEU A	54	152.665	-7.009	1.107	1.00	0.00
ATOM 756	CD2	LEU A	54	150.165	-6.983	1.133	1.00	0.00

ATOM 757	H	LEU A	54	151.813	-4.779	3.806	1.00	0.00
ATOM 758	HA	LEU A	54	149.601	-6.523	4.122	1.00	0.00
ATOM 759	1HB	LEU A	54	152.460	-7.326	3.606	1.00	0.00
ATOM 760	2HB	LEU A	54	151.011	-8.226	3.197	1.00	0.00
ATOM 761	HG	LEU A	54	151.440	-5.522	1.993	1.00	0.00
ATOM 762	1HD1	LEU A	54	153.501	-7.113	1.783	1.00	0.00
ATOM 763	2HD1	LEU A	54	152.893	-6.252	0.369	1.00	0.00
ATOM 764	3HD1	LEU A	54	152.483	-7.950	0.611	1.00	0.00
ATOM 765	1HD2	LEU A	54	150.389	-7.075	0.080	1.00	0.00
ATOM 766	2HD2	LEU A	54	149.412	-6.221	1.276	1.00	0.00
ATOM 767	3HD2	LEU A	54	149.796	-7.927	1.506	1.00	0.00
ATOM 768	N	GLU A	55	150.004	-7.986	6.123	1.00	0.00
ATOM 769	CA	GLU A	55	150.121	-8.655	7.413	1.00	0.00
ATOM 770	C	GLU A	55	151.205	-9.727	7.374	1.00	0.00
ATOM 771	O	GLU A	55	151.863	-9.996	8.379	1.00	0.00
ATOM 772	CB	GLU A	55	148.783	-9.281	7.810	1.00	0.00
ATOM 773	CG	GLU A	55	147.655	-8.271	7.941	1.00	0.00
ATOM 774	CD	GLU A	55	147.697	-7.519	9.258	1.00	0.00
ATOM 775	OE1	GLU A	55	147.737	-6.271	9.226	1.00	0.00
ATOM 776	OE2	GLU A	55	147.688	-8.177	10.318	1.00	0.00
ATOM 777	H	GLU A	55	149.246	-8.201	5.540	1.00	0.00
ATOM 778	HA	GLU A	55	150.393	-7.912	8.148	1.00	0.00
ATOM 779	1HB	GLU A	55	148.502	-10.007	7.061	1.00	0.00
ATOM 780	2HB	GLU A	55	148.901	-9.783	8.759	1.00	0.00
ATOM 781	1HG	GLU A	55	147.730	-7.558	7.135	1.00	0.00
ATOM 782	2HG	GLU A	55	146.711	-8.794	7.873	1.00	0.00
ATOM 783	N	ASP A	56	151.387	-10.336	6.207	1.00	0.00
ATOM 784	CA	ASP A	56	152.392	-11.378	6.037	1.00	0.00
ATOM 785	C	ASP A	56	153.662	-10.814	5.410	1.00	0.00

ATOM 786	O	ASP A	56	153.605	-10.068	4.432	1.00	0.00
ATOM 787	CB	ASP A	56	151.840	-12.511	5.169	1.00	0.00
ATOM 788	CG	ASP A	56	152.436	-13.858	5.527	1.00	0.00
ATOM 789	OD1	ASP A	56	153.294	-14.350	4.764	1.00	0.00
ATOM 790	OD2	ASP A	56	152.044	-14.421	6.570	1.00	0.00
ATOM 791	H	ASP A	56	150.831	-10.078	5.442	1.00	0.00
ATOM 792	HA	ASP A	56	152.631	-11.771	7.014	1.00	0.00
ATOM 793	1HB	ASP A	56	150.769	-12.566	5.297	1.00	0.00
ATOM 794	2HB	ASP A	56	152.063	-12.302	4.132	1.00	0.00
ATOM 795	N	GLU A	57	154.808	-11.175	5.978	1.00	0.00
ATOM 796	CA	GLU A	57	156.092	-10.704	5.475	1.00	0.00
ATOM 797	C	GLU A	57	156.441	-11.384	4.155	1.00	0.00
ATOM 798	O	GLU A	57	156.953	-12.504	4.137	1.00	0.00
ATOM 799	CB	GLU A	57	157.194	-10.967	6.503	1.00	0.00
ATOM 800	CG	GLU A	57	156.991	-10.226	7.815	1.00	0.00
ATOM 801	CD	GLU A	57	157.319	-11.081	9.024	1.00	0.00
ATOM 802	OE1	GLU A	57	158.151	-10.648	9.848	1.00	0.00
ATOM 803	OE2	GLU A	57	156.742	-12.181	9.146	1.00	0.00
ATOM 804	H	GLU A	57	154.788	-11.772	6.755	1.00	0.00
ATOM 805	HA	GLU A	57	156.014	-9.640	5.309	1.00	0.00
ATOM 806	1HB	GLU A	57	157.229	-12.025	6.714	1.00	0.00
ATOM 807	2HB	GLU A	57	158.141	-10.661	6.085	1.00	0.00
ATOM 808	1HG	GLU A	57	157.631	-9.357	7.824	1.00	0.00
ATOM 809	2HG	GLU A	57	155.960	-9.914	7.880	1.00	0.00
ATOM 810	N	CYS A	58	156.161	-10.700	3.051	1.00	0.00
ATOM 811	CA	CYS A	58	156.444	-11.239	1.725	1.00	0.00
ATOM 812	C	CYS A	58	157.694	-10.595	1.132	1.00	0.00
ATOM 813	O	CYS A	58	157.820	-9.370	1.106	1.00	0.00
ATOM 814	CB	CYS A	58	155.251	-11.016	0.795	1.00	0.00

ATOM 815	SG	CYS A	58	154.052	-12.369	0.796	1.00	0.00
ATOM 816	H	CYS A	58	155.753	-9.813	3.129	1.00	0.00
ATOM 817	HA	CYS A	58	156.616	-12.300	1.829	1.00	0.00
ATOM 818	1HB	CYS A	58	154.732	-10.118	1.095	1.00	0.00
ATOM 819	2HB	CYS A	58	155.610	-10.895	-0.217	1.00	0.00
ATOM 820	HG	CYS A	58	154.536	-13.194	0.873	1.00	0.00
ATOM 821	N	ALA A	59	158.615	-11.427	0.659	1.00	0.00
ATOM 822	CA	ALA A	59	159.854	-10.940	0.067	1.00	0.00
ATOM 823	C	ALA A	59	159.574	-10.076	-1.158	1.00	0.00
ATOM 824	O	ALA A	59	158.805	-10.461	-2.039	1.00	0.00
ATOM 825	CB	ALA A	59	160.757	-12.107	-0.303	1.00	0.00
ATOM 826	H	ALA A	59	158.457	-12.393	0.709	1.00	0.00
ATOM 827	HA	ALA A	59	160.364	-10.341	0.807	1.00	0.00
ATOM 828	1HB	ALA A	59	161.408	-12.335	0.527	1.00	0.00
ATOM 829	2HB	ALA A	59	161.351	-11.843	-1.165	1.00	0.00
ATOM 830	3HB	ALA A	59	160.152	-12.971	-0.534	1.00	0.00
ATOM 831	N	GLY A	60	160.204	-8.906	-1.208	1.00	0.00
ATOM 832	CA	GLY A	60	160.010	-8.006	-2.329	1.00	0.00
ATOM 833	C	GLY A	60	159.225	-6.766	-1.949	1.00	0.00
ATOM 834	O	GLY A	60	158.535	-6.180	-2.783	1.00	0.00
ATOM 835	H	GLY A	60	160.804	-8.652	-0.477	1.00	0.00
ATOM 836	1HA	GLY A	60	160.975	-7.706	-2.707	1.00	0.00
ATOM 837	2HA	GLY A	60	159.477	-8.530	-3.110	1.00	0.00
ATOM 838	N	CYS A	61	159.329	-6.366	-0.686	1.00	0.00
ATOM 839	CA	CYS A	61	158.623	-5.188	-0.197	1.00	0.00
ATOM 840	C	CYS A	61	159.522	-4.353	0.710	1.00	0.00
ATOM 841	O	CYS A	61	160.429	-4.877	1.354	1.00	0.00
ATOM 842	CB	CYS A	61	157.360	-5.602	0.561	1.00	0.00
ATOM 843	SG	CYS A	61	156.284	-6.726	-0.360	1.00	0.00

ATOM 844	H	CYS A	61	159.895	-6.875	-0.068	1.00	0.00
ATOM 845	HA	CYS A	61	158.341	-4.592	-1.051	1.00	0.00
ATOM 846	1HB	CYS A	61	157.645	-6.098	1.477	1.00	0.00
ATOM 847	2HB	CYS A	61	156.786	-4.718	0.799	1.00	0.00
ATOM 848	HG	CYS A	61	156.605	-6.771	-1.263	1.00	0.00
ATOM 849	N	THR A	62	159.263	-3.050	0.752	1.00	0.00
ATOM 850	CA	THR A	62	160.048	-2.141	1.580	1.00	0.00
ATOM 851	C	THR A	62	159.462	-2.040	2.984	1.00	0.00
ATOM 852	O	THR A	62	158.532	-2.766	3.333	1.00	0.00
ATOM 853	CB	THR A	62	160.105	-0.754	0.938	1.00	0.00
ATOM 854	OG1	THR A	62	158.834	-0.131	0.977	1.00	0.00
ATOM 855	CG2	THR A	62	160.560	-0.781	-0.506	1.00	0.00
ATOM 856	H	THR A	62	158.526	-2.691	0.215	1.00	0.00
ATOM 857	HA	THR A	62	161.050	-2.538	1.648	1.00	0.00
ATOM 858	HB	THR A	62	160.802	-0.141	1.492	1.00	0.00
ATOM 859	HG1	THR A	62	158.197	-0.673	0.507	1.00	0.00
ATOM 860	1HG2	THR A	62	160.960	0.185	-0.775	1.00	0.00
ATOM 861	2HG2	THR A	62	159.718	-1.013	-1.143	1.00	0.00
ATOM 862	3HG2	THR A	62	161.323	-1.535	-0.629	1.00	0.00
ATOM 863	N	ASP A	63	160.015	-1.136	3.787	1.00	0.00
ATOM 864	CA	ASP A	63	159.548	-0.940	5.154	1.00	0.00
ATOM 865	C	ASP A	63	158.836	0.401	5.299	1.00	0.00
ATOM 866	O	ASP A	63	158.879	1.026	6.359	1.00	0.00
ATOM 867	CB	ASP A	63	160.722	-1.016	6.132	1.00	0.00
ATOM 868	CG	ASP A	63	161.782	0.030	5.845	1.00	0.00
ATOM 869	OD1	ASP A	63	161.485	1.233	6.000	1.00	0.00
ATOM 870	OD2	ASP A	63	162.907	-0.355	5.466	1.00	0.00
ATOM 871	H	ASP A	63	160.755	-0.588	3.452	1.00	0.00
ATOM 872	HA	ASP A	63	158.850	-1.731	5.383	1.00	0.00

ATOM 873	1HB	ASP	A	63	160.356	-0.864	7.136	1.00	0.00
ATOM 874	2HB	ASP	A	63	161.177	-1.994	6.063	1.00	0.00
ATOM 875	N	GLY	A	64	158.182	0.836	4.227	1.00	0.00
ATOM 876	CA	GLY	A	64	157.471	2.101	4.255	1.00	0.00
ATOM 877	C	GLY	A	64	158.195	3.190	3.488	1.00	0.00
ATOM 878	O	GLY	A	64	158.313	4.319	3.964	1.00	0.00
ATOM 879	H	GLY	A	64	158.183	0.295	3.410	1.00	0.00
ATOM 880	1HA	GLY	A	64	156.492	1.960	3.823	1.00	0.00
ATOM 881	2HA	GLY	A	64	157.358	2.414	5.283	1.00	0.00
ATOM 882	N	THR	A	65	158.679	2.851	2.299	1.00	0.00
ATOM 883	CA	THR	A	65	159.394	3.809	1.464	1.00	0.00
ATOM 884	C	THR	A	65	159.012	3.644	-0.003	1.00	0.00
ATOM 885	O	THR	A	65	159.220	2.584	-0.594	1.00	0.00
ATOM 886	CB	THR	A	65	160.905	3.634	1.631	1.00	0.00
ATOM 887	OG1	THR	A	65	161.228	2.278	1.882	1.00	0.00
ATOM 888	CG2	THR	A	65	161.481	4.460	2.761	1.00	0.00
ATOM 889	H	THR	A	65	158.552	1.935	1.974	1.00	0.00
ATOM 890	HA	THR	A	65	159.118	4.801	1.786	1.00	0.00
ATOM 891	HB	THR	A	65	161.396	3.936	0.717	1.00	0.00
ATOM 892	HG1	THR	A	65	161.181	1.780	1.063	1.00	0.00
ATOM 893	1HG2	THR	A	65	161.444	5.507	2.496	1.00	0.00
ATOM 894	2HG2	THR	A	65	162.507	4.169	2.932	1.00	0.00
ATOM 895	3HG2	THR	A	65	160.905	4.296	3.658	1.00	0.00
ATOM 896	N	PHE	A	66	158.451	4.700	-0.585	1.00	0.00
ATOM 897	CA	PHE	A	66	158.039	4.672	-1.984	1.00	0.00
ATOM 898	C	PHE	A	66	158.944	5.556	-2.835	1.00	0.00
ATOM 899	O	PHE	A	66	159.022	6.768	-2.624	1.00	0.00
ATOM 900	CB	PHE	A	66	156.587	5.130	-2.118	1.00	0.00
ATOM 901	CG	PHE	A	66	155.983	4.831	-3.461	1.00	0.00

ATOM 902	CD1	PHE A	66	155.558	5.857	-4.289	1.00	0.00
ATOM 903	CD2	PHE A	66	155.843	3.522	-3.894	1.00	0.00
ATOM 904	CE1	PHE A	66	155.003	5.583	-5.524	1.00	0.00
ATOM 905	CE2	PHE A	66	155.289	3.242	-5.129	1.00	0.00
ATOM 906	CZ	PHE A	66	154.869	4.274	-5.945	1.00	0.00
ATOM 907	H	PHE A	66	158.311	5.516	-0.062	1.00	0.00
ATOM 908	HA	PHE A	66	158.120	3.654	-2.333	1.00	0.00
ATOM 909	1HB	PHE A	66	155.989	4.635	-1.368	1.00	0.00
ATOM 910	2HB	PHE A	66	156.537	6.198	-1.962	1.00	0.00
ATOM 911	HD1	PHE A	66	155.663	6.881	-3.961	1.00	0.00
ATOM 912	HD2	PHE A	66	156.171	2.715	-3.257	1.00	0.00
ATOM 913	HE1	PHE A	66	154.675	6.392	-6.160	1.00	0.00
ATOM 914	HE2	PHE A	66	155.185	2.219	-5.455	1.00	0.00
ATOM 915	HZ	PHE A	66	154.436	4.059	-6.911	1.00	0.00
ATOM 916	N	ARG A	67	159.627	4.944	-3.797	1.00	0.00
ATOM 917	CA	ARG A	67	160.527	5.677	-4.680	1.00	0.00
ATOM 918	C	ARG A	67	161.640	6.352	-3.884	1.00	0.00
ATOM 919	O	ARG A	67	162.121	7.422	-4.257	1.00	0.00
ATOM 920	CB	ARG A	67	159.750	6.723	-5.481	1.00	0.00
ATOM 921	CG	ARG A	67	158.753	6.124	-6.459	1.00	0.00
ATOM 922	CD	ARG A	67	159.346	5.998	-7.853	1.00	0.00
ATOM 923	NE	ARG A	67	160.017	4.715	-8.049	1.00	0.00
ATOM 924	CZ	ARG A	67	160.796	4.438	-9.092	1.00	0.00
ATOM 925	NH1	ARG A	67	161.005	5.349	-10.034	1.00	0.00
ATOM 926	NH2	ARG A	67	161.368	3.247	-9.193	1.00	0.00
ATOM 927	H	ARG A	67	159.522	3.978	-3.915	1.00	0.00
ATOM 928	HA	ARG A	67	160.969	4.969	-5.364	1.00	0.00
ATOM 929	1HB	ARG A	67	159.211	7.358	-4.794	1.00	0.00
ATOM 930	2HB	ARG A	67	160.451	7.326	-6.039	1.00	0.00

ATOM 931	1HG	ARG A	67	158.467	5.143	-6.111	1.00	0.00
ATOM 932	2HG	ARG A	67	157.881	6.759	-6.504	1.00	0.00
ATOM 933	1HD	ARG A	67	158.552	6.092	-8.578	1.00	0.00
ATOM 934	2HD	ARG A	67	160.060	6.794	-7.998	1.00	0.00
ATOM 935	HE	ARG A	67	159.880	4.024	-7.368	1.00	0.00
ATOM 936	1HH1	ARG A	67	160.577	6.251	-9.963	1.00	0.00
ATOM 937	2HH1	ARG A	67	161.592	5.135	-10.814	1.00	0.00
ATOM 938	1HH2	ARG A	67	161.215	2.556	-8.485	1.00	0.00
ATOM 939	2HH2	ARG A	67	161.954	3.039	-9.976	1.00	0.00
ATOM 940	N	GLY A	68	162.043	5.720	-2.787	1.00	0.00
ATOM 941	CA	GLY A	68	163.095	6.274	-1.957	1.00	0.00
ATOM 942	C	GLY A	68	162.613	7.431	-1.105	1.00	0.00
ATOM 943	O	GLY A	68	163.389	8.322	-0.761	1.00	0.00
ATOM 944	H	GLY A	68	161.623	4.869	-2.540	1.00	0.00
ATOM 945	1HA	GLY A	68	163.474	5.498	-1.309	1.00	0.00
ATOM 946	2HA	GLY A	68	163.897	6.619	-2.594	1.00	0.00
ATOM 947	N	THR A	69	161.329	7.417	-0.764	1.00	0.00
ATOM 948	CA	THR A	69	160.744	8.474	0.054	1.00	0.00
ATOM 949	C	THR A	69	159.926	7.886	1.199	1.00	0.00
ATOM 950	O	THR A	69	158.814	7.398	0.995	1.00	0.00
ATOM 951	CB	THR A	69	159.861	9.382	-0.805	1.00	0.00
ATOM 952	OG1	THR A	69	160.594	9.906	-1.897	1.00	0.00
ATOM 953	CG2	THR A	69	159.281	10.550	-0.039	1.00	0.00
ATOM 954	H	THR A	69	160.760	6.679	-1.068	1.00	0.00
ATOM 955	HA	THR A	69	161.551	9.059	0.467	1.00	0.00
ATOM 956	HB	THR A	69	159.039	8.801	-1.197	1.00	0.00
ATOM 957	HG1	THR A	69	160.330	9.460	-2.705	1.00	0.00
ATOM 958	1HG2	THR A	69	159.658	10.540	0.973	1.00	0.00
ATOM 959	2HG2	THR A	69	158.203	10.469	-0.021	1.00	0.00

ATOM 960	3HG2	THR	A	69	159.564	11.474	-0.520	1.00	0.00
ATOM 961	N	ARG	A	70	160.483	7.936	2.404	1.00	0.00
ATOM 962	CA	ARG	A	70	159.806	7.408	3.583	1.00	0.00
ATOM 963	C	ARG	A	70	158.531	8.193	3.874	1.00	0.00
ATOM 964	O	ARG	A	70	158.548	9.423	3.934	1.00	0.00
ATOM 965	CB	ARG	A	70	160.736	7.455	4.796	1.00	0.00
ATOM 966	CG	ARG	A	70	160.242	6.630	5.973	1.00	0.00
ATOM 967	CD	ARG	A	70	160.624	7.265	7.300	1.00	0.00
ATOM 968	NE	ARG	A	70	161.094	6.275	8.267	1.00	0.00
ATOM 969	CZ	ARG	A	70	161.219	6.514	9.571	1.00	0.00
ATOM 970	NH1	ARG	A	70	160.912	7.705	10.068	1.00	0.00
ATOM 971	NH2	ARG	A	70	161.653	5.557	10.380	1.00	0.00
ATOM 972	H	ARG	A	70	161.372	8.337	2.503	1.00	0.00
ATOM 973	HA	ARG	A	70	159.543	6.381	3.381	1.00	0.00
ATOM 974	1HB	ARG	A	70	161.708	7.082	4.505	1.00	0.00
ATOM 975	2HB	ARG	A	70	160.836	8.481	5.120	1.00	0.00
ATOM 976	1HG	ARG	A	70	159.167	6.551	5.919	1.00	0.00
ATOM 977	2HG	ARG	A	70	160.679	5.643	5.917	1.00	0.00
ATOM 978	1HD	ARG	A	70	161.410	7.986	7.127	1.00	0.00
ATOM 979	2HD	ARG	A	70	159.758	7.768	7.706	1.00	0.00
ATOM 980	HE	ARG	A	70	161.327	5.387	7.926	1.00	0.00
ATOM 981	1HH1	ARG	A	70	160.584	8.431	9.462	1.00	0.00
ATOM 982	2HH1	ARG	A	70	161.008	7.878	11.047	1.00	0.00
ATOM 983	1HH2	ARG	A	70	161.885	4.657	10.010	1.00	0.00
ATOM 984	2HH2	ARG	A	70	161.747	5.736	11.359	1.00	0.00
ATOM 985	N	TYR	A	71	157.428	7.475	4.055	1.00	0.00
ATOM 986	CA	TYR	A	71	156.143	8.104	4.341	1.00	0.00
ATOM 987	C	TYR	A	71	155.676	7.769	5.753	1.00	0.00
ATOM 988	O	TYR	A	71	155.095	8.609	6.442	1.00	0.00

ATOM 989	CB	TYR A	71	155.094	7.653	3.323	1.00	0.00
ATOM 990	CG	TYR A	71	155.205	8.353	1.988	1.00	0.00
ATOM 991	CD1	TYR A	71	155.177	7.632	0.800	1.00	0.00
ATOM 992	CD2	TYR A	71	155.339	9.734	1.914	1.00	0.00
ATOM 993	CE1	TYR A	71	155.278	8.268	-0.423	1.00	0.00
ATOM 994	CE2	TYR A	71	155.441	10.377	0.695	1.00	0.00
ATOM 995	CZ	TYR A	71	155.411	9.640	-0.470	1.00	0.00
ATOM 996	OH	TYR A	71	155.512	10.275	-1.686	1.00	0.00
ATOM 997	H	TYR A	71	157.479	6.498	3.995	1.00	0.00
ATOM 998	HA	TYR A	71	156.273	9.173	4.262	1.00	0.00
ATOM 999	1HB	TYR A	71	155.201	6.592	3.152	1.00	0.00
ATOM 1000	2HB	TYR A	71	154.110	7.850	3.722	1.00	0.00
ATOM 1001	HD1	TYR A	71	155.073	6.557	0.841	1.00	0.00
ATOM 1002	HD2	TYR A	71	155.364	10.308	2.828	1.00	0.00
ATOM 1003	HE1	TYR A	71	155.254	7.690	-1.334	1.00	0.00
ATOM 1004	HE2	TYR A	71	155.544	11.451	0.658	1.00	0.00
ATOM 1005	HH	TYR A	71	156.163	9.826	-2.229	1.00	0.00
ATOM 1006	N	PHE A	72	155.934	6.537	6.179	1.00	0.00
ATOM 1007	CA	PHE A	72	155.539	6.091	7.510	1.00	0.00
ATOM 1008	C	PHE A	72	156.482	5.006	8.022	1.00	0.00
ATOM 1009	O	PHE A	72	157.345	4.523	7.289	1.00	0.00
ATOM 1010	CB	PHE A	72	154.103	5.567	7.490	1.00	0.00
ATOM 1011	CG	PHE A	72	153.868	4.498	6.462	1.00	0.00
ATOM 1012	CD1	PHE A	72	153.547	4.833	5.156	1.00	0.00
ATOM 1013	CD2	PHE A	72	153.968	3.158	6.801	1.00	0.00
ATOM 1014	CE1	PHE A	72	153.330	3.851	4.208	1.00	0.00
ATOM 1015	CE2	PHE A	72	153.754	2.172	5.857	1.00	0.00
ATOM 1016	CZ	PHE A	72	153.434	2.519	4.558	1.00	0.00
ATOM 1017	H	PHE A	72	156.400	5.914	5.585	1.00	0.00

ATOM 1018	HA	PHE A	72	155.595	6.941	8.175	1.00	0.00
ATOM 1019	1HB	PHE A	72	153.864	5.154	8.459	1.00	0.00
ATOM 1020	2HB	PHE A	72	153.432	6.387	7.279	1.00	0.00
ATOM 1021	HD1	PHE A	72	153.466	5.873	4.881	1.00	0.00
ATOM 1022	HD2	PHE A	72	154.218	2.885	7.816	1.00	0.00
ATOM 1023	HE1	PHE A	72	153.081	4.126	3.193	1.00	0.00
ATOM 1024	HE2	PHE A	72	153.834	1.131	6.134	1.00	0.00
ATOM 1025	HZ	PHE A	72	153.265	1.750	3.819	1.00	0.00
ATOM 1026	N	THR A	73	156.310	4.627	9.284	1.00	0.00
ATOM 1027	CA	THR A	73	157.144	3.598	9.894	1.00	0.00
ATOM 1028	C	THR A	73	156.363	2.300	10.076	1.00	0.00
ATOM 1029	O	THR A	73	155.378	2.255	10.814	1.00	0.00
ATOM 1030	CB	THR A	73	157.676	4.079	11.244	1.00	0.00
ATOM 1031	OG1	THR A	73	158.557	3.122	11.805	1.00	0.00
ATOM 1032	CG2	THR A	73	156.585	4.347	12.257	1.00	0.00
ATOM 1033	H	THR A	73	155.604	5.048	9.817	1.00	0.00
ATOM 1034	HA	THR A	73	157.977	3.413	9.234	1.00	0.00
ATOM 1035	HB	THR A	73	158.225	4.999	11.097	1.00	0.00
ATOM 1036	HG1	THR A	73	159.290	3.572	12.232	1.00	0.00
ATOM 1037	1HG2	THR A	73	155.818	4.960	11.806	1.00	0.00
ATOM 1038	2HG2	THR A	73	157.003	4.864	13.109	1.00	0.00
ATOM 1039	3HG2	THR A	73	156.155	3.411	12.579	1.00	0.00
ATOM 1040	N	CYS A	74	156.808	1.248	9.397	1.00	0.00
ATOM 1041	CA	CYS A	74	156.151	-0.051	9.484	1.00	0.00
ATOM 1042	C	CYS A	74	157.172	-1.183	9.428	1.00	0.00
ATOM 1043	O	CYS A	74	158.352	-0.954	9.162	1.00	0.00
ATOM 1044	CB	CYS A	74	155.136	-0.209	8.350	1.00	0.00
ATOM 1045	SG	CYS A	74	153.487	0.420	8.742	1.00	0.00
ATOM 1046	H	CYS A	74	157.598	1.347	8.825	1.00	0.00

ATOM 1047	HA	CYS A	74	155.631	-0.098	10.428	1.00	0.00
ATOM 1048	1HB	CYS A	74	155.492	0.325	7.481	1.00	0.00
ATOM 1049	2HB	CYS A	74	155.040	-1.257	8.106	1.00	0.00
ATOM 1050	HG	CYS A	74	153.229	1.028	8.045	1.00	0.00
ATOM 1051	N	ALA A	75	156.710	-2.403	9.681	1.00	0.00
ATOM 1052	CA	ALA A	75	157.584	-3.569	9.660	1.00	0.00
ATOM 1053	C	ALA A	75	158.224	-3.751	8.288	1.00	0.00
ATOM 1054	O	ALA A	75	157.663	-3.341	7.273	1.00	0.00
ATOM 1055	CB	ALA A	75	156.806	-4.818	10.052	1.00	0.00
ATOM 1056	H	ALA A	75	155.759	-2.521	9.887	1.00	0.00
ATOM 1057	HA	ALA A	75	158.363	-3.415	10.393	1.00	0.00
ATOM 1058	1HB	ALA A	75	155.812	-4.769	9.629	1.00	0.00
ATOM 1059	2HB	ALA A	75	156.737	-4.876	11.129	1.00	0.00
ATOM 1060	3HB	ALA A	75	157.315	-5.692	9.676	1.00	0.00
ATOM 1061	N	LEU A	76	159.400	-4.369	8.267	1.00	0.00
ATOM 1062	CA	LEU A	76	160.116	-4.605	7.019	1.00	0.00
ATOM 1063	C	LEU A	76	159.404	-5.656	6.173	1.00	0.00
ATOM 1064	O	LEU A	76	158.806	-6.592	6.703	1.00	0.00
ATOM 1065	CB	LEU A	76	161.551	-5.051	7.306	1.00	0.00
ATOM 1066	CG	LEU A	76	162.480	-3.949	7.822	1.00	0.00
ATOM 1067	CD1	LEU A	76	162.577	-3.998	9.339	1.00	0.00
ATOM 1068	CD2	LEU A	76	163.860	-4.078	7.193	1.00	0.00
ATOM 1069	H	LEU A	76	159.796	-4.673	9.110	1.00	0.00
ATOM 1070	HA	LEU A	76	160.141	-3.675	6.471	1.00	0.00
ATOM 1071	1HB	LEU A	76	161.519	-5.841	8.043	1.00	0.00
ATOM 1072	2HB	LEU A	76	161.971	-5.449	6.395	1.00	0.00
ATOM 1073	HG	LEU A	76	162.074	-2.987	7.546	1.00	0.00
ATOM 1074	1HD1	LEU A	76	161.684	-4.453	9.742	1.00	0.00
ATOM 1075	2HD1	LEU A	76	162.675	-2.995	9.726	1.00	0.00

ATOM 1076	3HD1	LEU A	76	163.440	-4.581	9.626	1.00	0.00
ATOM 1077	1HD2	LEU A	76	164.358	-3.120	7.222	1.00	0.00
ATOM 1078	2HD2	LEU A	76	163.759	-4.400	6.168	1.00	0.00
ATOM 1079	3HD2	LEU A	76	164.440	-4.803	7.744	1.00	0.00
ATOM 1080	N	LYS A	77	159.475	-5.494	4.856	1.00	0.00
ATOM 1081	CA	LYS A	77	158.837	-6.429	3.936	1.00	0.00
ATOM 1082	C	LYS A	77	157.331	-6.480	4.169	1.00	0.00
ATOM 1083	O	LYS A	77	156.703	-7.527	4.009	1.00	0.00
ATOM 1084	CB	LYS A	77	159.437	-7.827	4.100	1.00	0.00
ATOM 1085	CG	LYS A	77	160.946	-7.866	3.923	1.00	0.00
ATOM 1086	CD	LYS A	77	161.343	-7.627	2.475	1.00	0.00
ATOM 1087	CE	LYS A	77	162.607	-6.788	2.375	1.00	0.00
ATOM 1088	NZ	LYS A	77	162.874	-6.352	0.977	1.00	0.00
ATOM 1089	H	LYS A	77	159.967	-4.727	4.494	1.00	0.00
ATOM 1090	HA	LYS A	77	159.023	-6.083	2.930	1.00	0.00
ATOM 1091	1HB	LYS A	77	159.203	-8.193	5.088	1.00	0.00
ATOM 1092	2HB	LYS A	77	158.993	-8.485	3.366	1.00	0.00
ATOM 1093	1HG	LYS A	77	161.391	-7.097	4.538	1.00	0.00
ATOM 1094	2HG	LYS A	77	161.311	-8.833	4.233	1.00	0.00
ATOM 1095	1HD	LYS A	77	161.518	-8.581	1.999	1.00	0.00
ATOM 1096	2HD	LYS A	77	160.539	-7.113	1.970	1.00	0.00
ATOM 1097	1HE	LYS A	77	162.493	-5.914	2.998	1.00	0.00
ATOM 1098	2HE	LYS A	77	163.442	-7.374	2.727	1.00	0.00
ATOM 1099	1HZ	LYS A	77	163.899	-6.279	0.814	1.00	0.00
ATOM 1100	2HZ	LYS A	77	162.441	-5.423	0.801	1.00	0.00
ATOM 1101	3HZ	LYS A	77	162.476	-7.040	0.305	1.00	0.00
ATOM 1102	N	LYS A	78	156.757	-5.342	4.546	1.00	0.00
ATOM 1103	CA	LYS A	78	155.323	-5.258	4.800	1.00	0.00
ATOM 1104	C	LYS A	78	154.792	-3.866	4.468	1.00	0.00

ATOM 1105	O	LYS A	78	153.921	-3.341	5.162	1.00	0.00
ATOM 1106	CB	LYS A	78	155.023	-5.595	6.262	1.00	0.00
ATOM 1107	CG	LYS A	78	155.524	-6.966	6.685	1.00	0.00
ATOM 1108	CD	LYS A	78	155.150	-7.275	8.127	1.00	0.00
ATOM 1109	CE	LYS A	78	153.909	-8.149	8.207	1.00	0.00
ATOM 1110	NZ	LYS A	78	152.946	-7.653	9.229	1.00	0.00
ATOM 1111	H	LYS A	78	157.311	-4.541	4.656	1.00	0.00
ATOM 1112	HA	LYS A	78	154.831	-5.979	4.166	1.00	0.00
ATOM 1113	1HB	LYS A	78	155.490	-4.854	6.895	1.00	0.00
ATOM 1114	2HB	LYS A	78	153.954	-5.563	6.415	1.00	0.00
ATOM 1115	1HG	LYS A	78	155.084	-7.714	6.042	1.00	0.00
ATOM 1116	2HG	LYS A	78	156.599	-6.991	6.588	1.00	0.00
ATOM 1117	1HD	LYS A	78	155.972	-7.791	8.599	1.00	0.00
ATOM 1118	2HD	LYS A	78	154.961	-6.346	8.646	1.00	0.00
ATOM 1119	1HE	LYS A	78	153.423	-8.155	7.242	1.00	0.00
ATOM 1120	2HE	LYS A	78	154.208	-9.154	8.464	1.00	0.00
ATOM 1121	1HZ	LYS A	78	152.270	-8.405	9.478	1.00	0.00
ATOM 1122	2HZ	LYS A	78	152.418	-6.837	8.858	1.00	0.00
ATOM 1123	3HZ	LYS A	78	153.454	-7.362	10.088	1.00	0.00
ATOM 1124	N	ALA A	79	155.321	-3.276	3.401	1.00	0.00
ATOM 1125	CA	ALA A	79	154.901	-1.947	2.977	1.00	0.00
ATOM 1126	C	ALA A	79	154.814	-1.858	1.457	1.00	0.00
ATOM 1127	O	ALA A	79	155.824	-1.679	0.777	1.00	0.00
ATOM 1128	CB	ALA A	79	155.856	-0.893	3.515	1.00	0.00
ATOM 1129	H	ALA A	79	156.012	-3.745	2.888	1.00	0.00
ATOM 1130	HA	ALA A	79	153.922	-1.758	3.394	1.00	0.00
ATOM 1131	1HB	ALA A	79	155.921	-0.074	2.815	1.00	0.00
ATOM 1132	2HB	ALA A	79	156.835	-1.331	3.650	1.00	0.00
ATOM 1133	3HB	ALA A	79	155.492	-0.528	4.463	1.00	0.00

ATOM 1134	N	LEU A	80	153.601	-1.984	0.930	1.00	0.00
ATOM 1135	CA	LEU A	80	153.381	-1.919	-0.510	1.00	0.00
ATOM 1136	C	LEU A	80	152.458	-0.758	-0.866	1.00	0.00
ATOM 1137	O	LEU A	80	151.333	-0.672	-0.372	1.00	0.00
ATOM 1138	CB	LEU A	80	152.787	-3.233	-1.018	1.00	0.00
ATOM 1139	CG	LEU A	80	152.459	-3.263	-2.512	1.00	0.00
ATOM 1140	CD1	LEU A	80	153.730	-3.149	-3.339	1.00	0.00
ATOM 1141	CD2	LEU A	80	151.702	-4.534	-2.865	1.00	0.00
ATOM 1142	H	LEU A	80	152.834	-2.126	1.523	1.00	0.00
ATOM 1143	HA	LEU A	80	154.339	-1.760	-0.985	1.00	0.00
ATOM 1144	1HB	LEU A	80	153.491	-4.026	-0.809	1.00	0.00
ATOM 1145	2HB	LEU A	80	151.878	-3.429	-0.470	1.00	0.00
ATOM 1146	HG	LEU A	80	151.829	-2.419	-2.751	1.00	0.00
ATOM 1147	1HD1	LEU A	80	154.565	-3.536	-2.772	1.00	0.00
ATOM 1148	2HD1	LEU A	80	153.910	-2.113	-3.583	1.00	0.00
ATOM 1149	3HD1	LEU A	80	153.619	-3.719	-4.249	1.00	0.00
ATOM 1150	1HD2	LEU A	80	152.069	-5.352	-2.262	1.00	0.00
ATOM 1151	2HD2	LEU A	80	151.850	-4.763	-3.910	1.00	0.00
ATOM 1152	3HD2	LEU A	80	150.649	-4.391	-2.674	1.00	0.00
ATOM 1153	N	PHE A	81	152.939	0.132	-1.728	1.00	0.00
ATOM 1154	CA	PHE A	81	152.156	1.287	-2.150	1.00	0.00
ATOM 1155	C	PHE A	81	151.387	0.985	-3.432	1.00	0.00
ATOM 1156	O	PHE A	81	151.895	0.312	-4.329	1.00	0.00
ATOM 1157	CB	PHE A	81	153.068	2.498	-2.364	1.00	0.00
ATOM 1158	CG	PHE A	81	153.656	3.037	-1.091	1.00	0.00
ATOM 1159	CD1	PHE A	81	153.026	4.061	-0.401	1.00	0.00
ATOM 1160	CD2	PHE A	81	154.838	2.522	-0.585	1.00	0.00
ATOM 1161	CE1	PHE A	81	153.565	4.559	0.770	1.00	0.00
ATOM 1162	CE2	PHE A	81	155.382	3.016	0.585	1.00	0.00

ATOM 1163	CZ	PHE A	81	154.744	4.036	1.263	1.00	0.00
ATOM 1164	H	PHE A	81	153.842	0.009	-2.087	1.00	0.00
ATOM 1165	HA	PHE A	81	151.450	1.514	-1.366	1.00	0.00
ATOM 1166	1HB	PHE A	81	153.883	2.215	-3.012	1.00	0.00
ATOM 1167	2HB	PHE A	81	152.500	3.289	-2.830	1.00	0.00
ATOM 1168	HD1	PHE A	81	152.103	4.470	-0.786	1.00	0.00
ATOM 1169	HD2	PHE A	81	155.338	1.724	-1.115	1.00	0.00
ATOM 1170	HE1	PHE A	81	153.064	5.357	1.299	1.00	0.00
ATOM 1171	HE2	PHE A	81	156.305	2.606	0.969	1.00	0.00
ATOM 1172	HZ	PHE A	81	155.167	4.425	2.178	1.00	0.00
ATOM 1173	N	VAL A	82	150.158	1.486	-3.511	1.00	0.00
ATOM 1174	CA	VAL A	82	149.319	1.270	-4.683	1.00	0.00
ATOM 1175	C	VAL A	82	148.378	2.449	-4.910	1.00	0.00
ATOM 1176	O	VAL A	82	148.205	3.295	-4.033	1.00	0.00
ATOM 1177	CB	VAL A	82	148.486	-0.018	-4.549	1.00	0.00
ATOM 1178	CG1	VAL A	82	149.382	-1.245	-4.630	1.00	0.00
ATOM 1179	CG2	VAL A	82	147.696	-0.010	-3.249	1.00	0.00
ATOM 1180	H	VAL A	82	149.809	2.016	-2.764	1.00	0.00
ATOM 1181	HA	VAL A	82	149.966	1.168	-5.542	1.00	0.00
ATOM 1182	HB	VAL A	82	147.786	-0.057	-5.371	1.00	0.00
ATOM 1183	1HG1	VAL A	82	150.273	-1.004	-5.191	1.00	0.00
ATOM 1184	2HG1	VAL A	82	148.851	-2.045	-5.123	1.00	0.00
ATOM 1185	3HG1	VAL A	82	149.658	-1.555	-3.633	1.00	0.00
ATOM 1186	1HG2	VAL A	82	147.479	-1.027	-2.954	1.00	0.00
ATOM 1187	2HG2	VAL A	82	146.771	0.528	-3.394	1.00	0.00
ATOM 1188	3HG2	VAL A	82	148.277	0.472	-2.478	1.00	0.00
ATOM 1189	N	LYS A	83	147.774	2.498	-6.092	1.00	0.00
ATOM 1190	CA	LYS A	83	146.851	3.573	-6.434	1.00	0.00
ATOM 1191	C	LYS A	83	145.578	3.488	-5.598	1.00	0.00

ATOM 1192	O	LYS A	83	144.863	2.486	-5.636	1.00	0.00
ATOM 1193	CB	LYS A	83	146.501	3.519	-7.922	1.00	0.00
ATOM 1194	CG	LYS A	83	147.710	3.631	-8.836	1.00	0.00
ATOM 1195	CD	LYS A	83	147.400	3.123	-10.234	1.00	0.00
ATOM 1196	CE	LYS A	83	148.095	3.959	-11.298	1.00	0.00
ATOM 1197	NZ	LYS A	83	148.618	3.119	-12.410	1.00	0.00
ATOM 1198	H	LYS A	83	147.952	1.794	-6.750	1.00	0.00
ATOM 1199	HA	LYS A	83	147.342	4.511	-6.223	1.00	0.00
ATOM 1200	1HB	LYS A	83	146.005	2.582	-8.129	1.00	0.00
ATOM 1201	2HB	LYS A	83	145.826	4.330	-8.152	1.00	0.00
ATOM 1202	1HG	LYS A	83	148.008	4.667	-8.897	1.00	0.00
ATOM 1203	2HG	LYS A	83	148.518	3.045	-8.421	1.00	0.00
ATOM 1204	1HD	LYS A	83	147.736	2.101	-10.319	1.00	0.00
ATOM 1205	2HD	LYS A	83	146.333	3.168	-10.394	1.00	0.00
ATOM 1206	1HE	LYS A	83	147.388	4.670	-11.697	1.00	0.00
ATOM 1207	2HE	LYS A	83	148.918	4.488	-10.841	1.00	0.00
ATOM 1208	1HZ	LYS A	83	148.764	3.702	-13.259	1.00	0.00
ATOM 1209	2HZ	LYS A	83	147.940	2.363	-12.637	1.00	0.00
ATOM 1210	3HZ	LYS A	83	149.524	2.687	-12.138	1.00	0.00
ATOM 1211	N	LEU A	84	145.303	4.546	-4.844	1.00	0.00
ATOM 1212	CA	LEU A	84	144.118	4.598	-3.998	1.00	0.00
ATOM 1213	C	LEU A	84	142.847	4.449	-4.831	1.00	0.00
ATOM 1214	O	LEU A	84	141.831	3.947	-4.347	1.00	0.00
ATOM 1215	CB	LEU A	84	144.082	5.914	-3.220	1.00	0.00
ATOM 1216	CG	LEU A	84	142.827	6.134	-2.372	1.00	0.00
ATOM 1217	CD1	LEU A	84	142.903	5.324	-1.087	1.00	0.00
ATOM 1218	CD2	LEU A	84	142.648	7.612	-2.060	1.00	0.00
ATOM 1219	H	LEU A	84	145.912	5.313	-4.859	1.00	0.00
ATOM 1220	HA	LEU A	84	144.174	3.777	-3.299	1.00	0.00

ATOM 1221	1HB	LEU A	84	144.942	5.945	-2.568	1.00	0.00
ATOM 1222	2HB	LEU A	84	144.158	6.727	-3.927	1.00	0.00
ATOM 1223	HG	LEU A	84	141.962	5.801	-2.926	1.00	0.00
ATOM 1224	1HD1	LEU A	84	142.054	5.558	-0.463	1.00	0.00
ATOM 1225	2HD1	LEU A	84	143.814	5.566	-0.561	1.00	0.00
ATOM 1226	3HD1	LEU A	84	142.894	4.270	-1.326	1.00	0.00
ATOM 1227	1HD2	LEU A	84	141.640	7.788	-1.719	1.00	0.00
ATOM 1228	2HD2	LEU A	84	142.833	8.193	-2.953	1.00	0.00
ATOM 1229	3HD2	LEU A	84	143.346	7.905	-1.290	1.00	0.00
ATOM 1230	N	LYS A	85	142.909	4.888	-6.084	1.00	0.00
ATOM 1231	CA	LYS A	85	141.764	4.804	-6.981	1.00	0.00
ATOM 1232	C	LYS A	85	141.386	3.349	-7.248	1.00	0.00
ATOM 1233	O	LYS A	85	140.226	3.039	-7.520	1.00	0.00
ATOM 1234	CB	LYS A	85	142.070	5.513	-8.301	1.00	0.00
ATOM 1235	CG	LYS A	85	143.200	4.870	-9.089	1.00	0.00
ATOM 1236	CD	LYS A	85	144.065	5.915	-9.778	1.00	0.00
ATOM 1237	CE	LYS A	85	143.422	6.411	-11.063	1.00	0.00
ATOM 1238	NZ	LYS A	85	142.575	7.613	-10.832	1.00	0.00
ATOM 1239	H	LYS A	85	143.746	5.280	-6.412	1.00	0.00
ATOM 1240	HA	LYS A	85	140.931	5.297	-6.503	1.00	0.00
ATOM 1241	1HB	LYS A	85	141.182	5.506	-8.915	1.00	0.00
ATOM 1242	2HB	LYS A	85	142.343	6.537	-8.092	1.00	0.00
ATOM 1243	1HG	LYS A	85	143.817	4.297	-8.414	1.00	0.00
ATOM 1244	2HG	LYS A	85	142.777	4.216	-9.837	1.00	0.00
ATOM 1245	1HD	LYS A	85	144.203	6.751	-9.110	1.00	0.00
ATOM 1246	2HD	LYS A	85	145.024	5.476	-10.011	1.00	0.00
ATOM 1247	1HE	LYS A	85	144.201	6.660	-11.767	1.00	0.00
ATOM 1248	2HE	LYS A	85	142.808	5.621	-11.471	1.00	0.00
ATOM 1249	1HZ	LYS A	85	142.885	8.109	-9.971	1.00	0.00

ATOM 1250	2HZ	LYS A	85	141.580	7.333	-10.719	1.00	0.00
ATOM 1251	3HZ	LYS A	85	142.651	8.264	-11.640	1.00	0.00
ATOM 1252	N	SER A	86	142.372	2.461	-7.169	1.00	0.00
ATOM 1253	CA	SER A	86	142.140	1.041	-7.401	1.00	0.00
ATOM 1254	C	SER A	86	142.076	0.279	-6.082	1.00	0.00
ATOM 1255	O	SER A	86	142.459	-0.889	-6.009	1.00	0.00
ATOM 1256	CB	SER A	86	143.244	0.460	-8.286	1.00	0.00
ATOM 1257	OG	SER A	86	143.251	1.075	-9.563	1.00	0.00
ATOM 1258	H	SER A	86	143.276	2.768	-6.949	1.00	0.00
ATOM 1259	HA	SER A	86	141.192	0.938	-7.909	1.00	0.00
ATOM 1260	1HB	SER A	86	144.203	0.624	-7.818	1.00	0.00
ATOM 1261	2HB	SER A	86	143.083	-0.600	-8.412	1.00	0.00
ATOM 1262	HG	SER A	86	143.520	1.993	-9.476	1.00	0.00
ATOM 1263	N	CYS A	87	141.591	0.947	-5.041	1.00	0.00
ATOM 1264	CA	CYS A	87	141.476	0.334	-3.724	1.00	0.00
ATOM 1265	C	CYS A	87	140.014	0.185	-3.316	1.00	0.00
ATOM 1266	O	CYS A	87	139.142	0.887	-3.829	1.00	0.00
ATOM 1267	CB	CYS A	87	142.225	1.168	-2.683	1.00	0.00
ATOM 1268	SG	CYS A	87	143.995	0.811	-2.585	1.00	0.00
ATOM 1269	H	CYS A	87	141.303	1.875	-5.162	1.00	0.00
ATOM 1270	HA	CYS A	87	141.925	-0.648	-3.775	1.00	0.00
ATOM 1271	1HB	CYS A	87	142.116	2.214	-2.924	1.00	0.00
ATOM 1272	2HB	CYS A	87	141.799	0.982	-1.709	1.00	0.00
ATOM 1273	HG	CYS A	87	144.472	1.629	-2.742	1.00	0.00
ATOM 1274	N	ARG A	88	139.754	-0.733	-2.391	1.00	0.00
ATOM 1275	CA	ARG A	88	138.397	-0.975	-1.913	1.00	0.00
ATOM 1276	C	ARG A	88	138.388	-1.224	-0.407	1.00	0.00
ATOM 1277	O	ARG A	88	139.319	-1.819	0.136	1.00	0.00
ATOM 1278	CB	ARG A	88	137.782	-2.170	-2.644	1.00	0.00

ATOM 1279	CG	ARG A	88	137.419	-1.877	-4.091	1.00	0.00
ATOM 1280	CD	ARG A	88	136.061	-2.455	-4.455	1.00	0.00
ATOM 1281	NE	ARG A	88	135.481	-1.796	-5.623	1.00	0.00
ATOM 1282	CZ	ARG A	88	134.188	-1.848	-5.938	1.00	0.00
ATOM 1283	NH1	ARG A	88	133.340	-2.527	-5.177	1.00	0.00
ATOM 1284	NH2	ARG A	88	133.744	-1.218	-7.018	1.00	0.00
ATOM 1285	H	ARG A	88	140.492	-1.261	-2.021	1.00	0.00
ATOM 1286	HA	ARG A	88	137.811	-0.094	-2.125	1.00	0.00
ATOM 1287	1HB	ARG A	88	138.489	-2.988	-2.630	1.00	0.00
ATOM 1288	2HB	ARG A	88	136.885	-2.472	-2.124	1.00	0.00
ATOM 1289	1HG	ARG A	88	137.394	-0.808	-4.236	1.00	0.00
ATOM 1290	2HG	ARG A	88	138.170	-2.311	-4.735	1.00	0.00
ATOM 1291	1HD	ARG A	88	136.178	-3.507	-4.669	1.00	0.00
ATOM 1292	2HD	ARG A	88	135.395	-2.330	-3.615	1.00	0.00
ATOM 1293	HE	ARG A	88	136.086	-1.287	-6.203	1.00	0.00
ATOM 1294	1HH1	ARG A	88	133.668	-3.003	-4.362	1.00	0.00
ATOM 1295	2HH1	ARG A	88	132.370	-2.561	-5.420	1.00	0.00
ATOM 1296	1HH2	ARG A	88	134.380	-0.706	-7.595	1.00	0.00
ATOM 1297	2HH2	ARG A	88	132.773	-1.258	-7.255	1.00	0.00
ATOM 1298	N	PRO A	89	137.332	-0.771	0.291	1.00	0.00
ATOM 1299	CA	PRO A	89	137.213	-0.952	1.738	1.00	0.00
ATOM 1300	C	PRO A	89	137.019	-2.414	2.122	1.00	0.00
ATOM 1301	O	PRO A	89	135.964	-2.997	1.875	1.00	0.00
ATOM 1302	CB	PRO A	89	135.976	-0.131	2.110	1.00	0.00
ATOM 1303	CG	PRO A	89	135.191	0.000	0.853	1.00	0.00
ATOM 1304	CD	PRO A	89	136.177	-0.054	-0.277	1.00	0.00
ATOM 1305	HA	PRO A	89	138.077	-0.559	2.256	1.00	0.00
ATOM 1306	1HB	PRO A	89	135.413	-0.656	2.863	1.00	0.00
ATOM 1307	2HB	PRO A	89	136.280	0.833	2.488	1.00	0.00

ATOM 1308	1HG	PRO A	89	134.489	-0.817	0.775	1.00	0.00
ATOM 1309	2HG	PRO A	89	134.667	0.944	0.848	1.00	0.00
ATOM 1310	1HD	PRO A	89	135.759	-0.602	-1.102	1.00	0.00
ATOM 1311	2HD	PRO A	89	136.454	0.943	-0.584	1.00	0.00
ATOM 1312	N	ASP A	90	138.046	-3.002	2.728	1.00	0.00
ATOM 1313	CA	ASP A	90	137.991	-4.398	3.146	1.00	0.00
ATOM 1314	C	ASP A	90	136.953	-4.597	4.246	1.00	0.00
ATOM 1315	O	ASP A	90	136.925	-3.855	5.229	1.00	0.00
ATOM 1316	CB	ASP A	90	139.365	-4.859	3.636	1.00	0.00
ATOM 1317	CG	ASP A	90	139.557	-6.357	3.498	1.00	0.00
ATOM 1318	OD1	ASP A	90	138.548	-7.070	3.315	1.00	0.00
ATOM 1319	OD2	ASP A	90	140.715	-6.816	3.574	1.00	0.00
ATOM 1320	H	ASP A	90	138.860	-2.485	2.896	1.00	0.00
ATOM 1321	HA	ASP A	90	137.707	-4.990	2.289	1.00	0.00
ATOM 1322	1HB	ASP A	90	140.130	-4.363	3.058	1.00	0.00
ATOM 1323	2HB	ASP A	90	139.476	-4.594	4.677	1.00	0.00
ATOM 1324	N	SER A	91	136.104	-5.605	4.075	1.00	0.00
ATOM 1325	CA	SER A	91	135.067	-5.904	5.055	1.00	0.00
ATOM 1326	C	SER A	91	135.483	-7.067	5.950	1.00	0.00
ATOM 1327	O	SER A	91	134.642	-7.823	6.432	1.00	0.00
ATOM 1328	CB	SER A	91	133.751	-6.236	4.348	1.00	0.00
ATOM 1329	OG	SER A	91	132.638	-5.866	5.143	1.00	0.00
ATOM 1330	H	SER A	91	136.179	-6.161	3.272	1.00	0.00
ATOM 1331	HA	SER A	91	134.925	-5.026	5.666	1.00	0.00
ATOM 1332	1HB	SER A	91	133.702	-5.700	3.412	1.00	0.00
ATOM 1333	2HB	SER A	91	133.705	-7.298	4.158	1.00	0.00
ATOM 1334	HG	SER A	91	132.199	-6.656	5.468	1.00	0.00
ATOM 1335	N	ARG A	92	136.788	-7.202	6.165	1.00	0.00
ATOM 1336	CA	ARG A	92	137.316	-8.274	7.002	1.00	0.00

ATOM 1337	C	ARG A	92	136.883	-8.095	8.454	1.00	0.00
ATOM 1338	O	ARG A	92	136.702	-9.071	9.181	1.00	0.00
ATOM 1339	CB	ARG A	92	138.843	-8.311	6.914	1.00	0.00
ATOM 1340	CG	ARG A	92	139.364	-8.969	5.645	1.00	0.00
ATOM 1341	CD	ARG A	92	139.907	-10.361	5.921	1.00	0.00
ATOM 1342	NE	ARG A	92	138.927	-11.208	6.599	1.00	0.00
ATOM 1343	CZ	ARG A	92	139.080	-12.516	6.786	1.00	0.00
ATOM 1344	NH1	ARG A	92	140.171	-13.134	6.348	1.00	0.00
ATOM 1345	NH2	ARG A	92	138.140	-13.211	7.412	1.00	0.00
ATOM 1346	H	ARG A	92	137.410	-6.568	5.753	1.00	0.00
ATOM 1347	HA	ARG A	92	136.920	-9.207	6.633	1.00	0.00
ATOM 1348	1HB	ARG A	92	139.219	-7.299	6.949	1.00	0.00
ATOM 1349	2HB	ARG A	92	139.227	-8.857	7.763	1.00	0.00
ATOM 1350	1HG	ARG A	92	138.556	-9.044	4.933	1.00	0.00
ATOM 1351	2HG	ARG A	92	140.154	-8.359	5.234	1.00	0.00
ATOM 1352	1HD	ARG A	92	140.176	-10.822	4.982	1.00	0.00
ATOM 1353	2HD	ARG A	92	140.786	-10.275	6.544	1.00	0.00
ATOM 1354	HE	ARG A	92	138.112	-10.778	6.933	1.00	0.00
ATOM 1355	1HH1	ARG A	92	140.883	-12.616	5.875	1.00	0.00
ATOM 1356	2HH1	ARG A	92	140.280	-14.117	6.492	1.00	0.00
ATOM 1357	1HH2	ARG A	92	137.317	-12.751	7.744	1.00	0.00
ATOM 1358	2HH2	ARG A	92	138.255	-14.194	7.552	1.00	0.00
ATOM 1359	N	PHE A	93	136.721	-6.843	8.869	1.00	0.00
ATOM 1360	CA	PHE A	93	136.309	-6.537	10.234	1.00	0.00
ATOM 1361	C	PHE A	93	135.024	-5.717	10.246	1.00	0.00
ATOM 1362	O	PHE A	93	134.798	-4.915	11.153	1.00	0.00
ATOM 1363	CB	PHE A	93	137.419	-5.780	10.965	1.00	0.00
ATOM 1364	CG	PHE A	93	138.691	-6.567	11.107	1.00	0.00
ATOM 1365	CD1	PHE A	93	139.159	-6.934	12.357	1.00	0.00

ATOM 1366	CD2	PHE A	93	139.419	-6.937	9.987	1.00	0.00
ATOM 1367	CE1	PHE A	93	140.328	-7.658	12.491	1.00	0.00
ATOM 1368	CE2	PHE A	93	140.589	-7.662	10.113	1.00	0.00
ATOM 1369	CZ	PHE A	93	141.045	-8.022	11.366	1.00	0.00
ATOM 1370	H	PHE A	93	136.881	-6.107	8.242	1.00	0.00
ATOM 1371	HA	PHE A	93	136.129	-7.473	10.743	1.00	0.00
ATOM 1372	1HB	PHE A	93	137.646	-4.876	10.422	1.00	0.00
ATOM 1373	2HB	PHE A	93	137.075	-5.521	11.957	1.00	0.00
ATOM 1374	HD1	PHE A	93	138.599	-6.651	13.237	1.00	0.00
ATOM 1375	HD2	PHE A	93	139.063	-6.656	9.007	1.00	0.00
ATOM 1376	HE1	PHE A	93	140.683	-7.938	13.471	1.00	0.00
ATOM 1377	HE2	PHE A	93	141.148	-7.944	9.233	1.00	0.00
ATOM 1378	HZ	PHE A	93	141.960	-8.587	11.468	1.00	0.00
ATOM 1379	N	ALA A	94	134.184	-5.920	9.236	1.00	0.00
ATOM 1380	CA	ALA A	94	132.923	-5.199	9.134	1.00	0.00
ATOM 1381	C	ALA A	94	131.753	-6.073	9.572	1.00	0.00
ATOM 1382	O	ALA A	94	131.540	-7.160	9.032	1.00	0.00
ATOM 1383	CB	ALA A	94	132.711	-4.704	7.711	1.00	0.00
ATOM 1384	H	ALA A	94	134.420	-6.574	8.543	1.00	0.00
ATOM 1385	HA	ALA A	94	132.978	-4.337	9.784	1.00	0.00
ATOM 1386	1HB	ALA A	94	131.982	-5.329	7.216	1.00	0.00
ATOM 1387	2HB	ALA A	94	133.646	-4.747	7.172	1.00	0.00
ATOM 1388	3HB	ALA A	94	132.356	-3.685	7.733	1.00	0.00
ATOM 1389	N	SER A	95	130.997	-5.593	10.554	1.00	0.00
ATOM 1390	CA	SER A	95	129.848	-6.330	11.065	1.00	0.00
ATOM 1391	C	SER A	95	128.542	-5.657	10.654	1.00	0.00
ATOM 1392	O	SER A	95	128.403	-4.437	10.754	1.00	0.00
ATOM 1393	CB	SER A	95	129.923	-6.440	12.589	1.00	0.00
ATOM 1394	OG	SER A	95	129.179	-7.551	13.058	1.00	0.00

ATOM 1395	H	SER A	95	131.217	-4.721	10.944	1.00	0.00
ATOM 1396	HA	SER A	95	129.876	-7.323	10.640	1.00	0.00
ATOM 1397	1HB	SER A	95	130.952	-6.560	12.890	1.00	0.00
ATOM 1398	2HB	SER A	95	129.521	-5.540	13.032	1.00	0.00
ATOM 1399	HG	SER A	95	129.777	-8.270	13.272	1.00	0.00
ATOM 1400	N	LEU A	96	127.587	-6.458	10.194	1.00	0.00
ATOM 1401	CA	LEU A	96	126.294	-5.939	9.768	1.00	0.00
ATOM 1402	C	LEU A	96	125.251	-6.107	10.868	1.00	0.00
ATOM 1403	O	LEU A	96	124.066	-6.293	10.592	1.00	0.00
ATOM 1404	CB	LEU A	96	125.829	-6.650	8.496	1.00	0.00
ATOM 1405	CG	LEU A	96	126.512	-6.187	7.209	1.00	0.00
ATOM 1406	CD1	LEU A	96	126.653	-7.345	6.233	1.00	0.00
ATOM 1407	CD2	LEU A	96	125.735	-5.043	6.575	1.00	0.00
ATOM 1408	H	LEU A	96	127.758	-7.421	10.138	1.00	0.00
ATOM 1409	HA	LEU A	96	126.412	-4.886	9.559	1.00	0.00
ATOM 1410	1HB	LEU A	96	126.008	-7.709	8.615	1.00	0.00
ATOM 1411	2HB	LEU A	96	124.766	-6.492	8.388	1.00	0.00
ATOM 1412	HG	LEU A	96	127.504	-5.828	7.445	1.00	0.00
ATOM 1413	1HD1	LEU A	96	125.687	-7.802	6.075	1.00	0.00
ATOM 1414	2HD1	LEU A	96	127.337	-8.076	6.637	1.00	0.00
ATOM 1415	3HD1	LEU A	96	127.035	-6.977	5.292	1.00	0.00
ATOM 1416	1HD2	LEU A	96	125.827	-5.098	5.500	1.00	0.00
ATOM 1417	2HD2	LEU A	96	126.132	-4.102	6.923	1.00	0.00
ATOM 1418	3HD2	LEU A	96	124.693	-5.120	6.850	1.00	0.00
ATOM 1419	N	GLN A	97	125.700	-6.037	12.116	1.00	0.00
ATOM 1420	CA	GLN A	97	124.806	-6.180	13.260	1.00	0.00
ATOM 1421	C	GLN A	97	125.447	-5.618	14.528	1.00	0.00
ATOM 1422	O	GLN A	97	125.540	-6.305	15.546	1.00	0.00
ATOM 1423	CB	GLN A	97	124.440	-7.652	13.466	1.00	0.00

ATOM 1424	CG	GLN A	97	123.317	-7.864	14.467	1.00	0.00
ATOM 1425	CD	GLN A	97	123.167	-9.317	14.876	1.00	0.00
ATOM 1426	OE1	GLN A	97	122.698	-10.148	14.099	1.00	0.00
ATOM 1427	NE2	GLN A	97	123.569	-9.630	16.103	1.00	0.00
ATOM 1428	H	GLN A	97	126.656	-5.886	12.274	1.00	0.00
ATOM 1429	HA	GLN A	97	123.907	-5.622	13.049	1.00	0.00
ATOM 1430	1HB	GLN A	97	124.134	-8.070	12.518	1.00	0.00
ATOM 1431	2HB	GLN A	97	125.313	-8.182	13.818	1.00	0.00
ATOM 1432	1HG	GLN A	97	123.522	-7.277	15.349	1.00	0.00
ATOM 1433	2HG	GLN A	97	122.389	-7.534	14.024	1.00	0.00
ATOM 1434	1HE2	GLN A	97	123.933	-8.917	16.667	1.00	0.00
ATOM 1435	2HE2	GLN A	97	123.484	-10.562	16.393	1.00	0.00
ATOM 1436	N	PRO A	98	125.900	-4.353	14.483	1.00	0.00
ATOM 1437	CA	PRO A	98	126.534	-3.700	15.632	1.00	0.00
ATOM 1438	C	PRO A	98	125.534	-3.370	16.735	1.00	0.00
ATOM 1439	O	PRO A	98	124.728	-2.449	16.600	1.00	0.00
ATOM 1440	CB	PRO A	98	127.113	-2.416	15.035	1.00	0.00
ATOM 1441	CG	PRO A	98	126.248	-2.125	13.858	1.00	0.00
ATOM 1442	CD	PRO A	98	125.829	-3.460	13.309	1.00	0.00
ATOM 1443	HA	PRO A	98	127.332	-4.303	16.039	1.00	0.00
ATOM 1444	1HB	PRO A	98	127.067	-1.623	15.767	1.00	0.00
ATOM 1445	2HB	PRO A	98	128.138	-2.583	14.739	1.00	0.00
ATOM 1446	1HG	PRO A	98	125.382	-1.559	14.170	1.00	0.00
ATOM 1447	2HG	PRO A	98	126.809	-1.575	13.117	1.00	0.00
ATOM 1448	1HD	PRO A	98	124.821	-3.411	12.924	1.00	0.00
ATOM 1449	2HD	PRO A	98	126.514	-3.784	12.538	1.00	0.00
ATOM 1450	N	SER A	99	125.590	-4.129	17.825	1.00	0.00
ATOM 1451	CA	SER A	99	124.688	-3.917	18.950	1.00	0.00
ATOM 1452	C	SER A	99	125.020	-4.862	20.100	1.00	0.00

ATOM 1453	O	SER A	99	124.804	-6.071	20.005	1.00	0.00
ATOM 1454	CB	SER A	99	123.236	-4.118	18.513	1.00	0.00
ATOM 1455	OG	SER A	99	122.378	-3.188	19.148	1.00	0.00
ATOM 1456	H	SER A	99	126.255	-4.849	17.872	1.00	0.00
ATOM 1457	HA	SER A	99	124.815	-2.899	19.289	1.00	0.00
ATOM 1458	1HB	SER A	99	123.163	-3.983	17.443	1.00	0.00
ATOM 1459	2HB	SER A	99	122.920	-5.118	18.771	1.00	0.00
ATOM 1460	HG	SER A	99	121.811	-2.774	18.493	1.00	0.00
ATOM 1461	N	GLY A	100	125.544	-4.304	21.186	1.00	0.00
ATOM 1462	CA	GLY A	100	125.896	-5.111	22.339	1.00	0.00
ATOM 1463	C	GLY A	100	125.496	-4.454	23.648	1.00	0.00
ATOM 1464	O	GLY A	100	124.378	-4.651	24.125	1.00	0.00
ATOM 1465	H	GLY A	100	125.692	-3.335	21.204	1.00	0.00
ATOM 1466	1HA	GLY A	100	125.400	-6.066	22.261	1.00	0.00
ATOM 1467	2HA	GLY A	100	126.965	-5.270	22.341	1.00	0.00
ATOM 1468	N	PRO A	101	126.396	-3.664	24.257	1.00	0.00
ATOM 1469	CA	PRO A	101	126.116	-2.980	25.524	1.00	0.00
ATOM 1470	C	PRO A	101	125.105	-1.850	25.358	1.00	0.00
ATOM 1471	O	PRO A	101	124.312	-1.575	26.259	1.00	0.00
ATOM 1472	CB	PRO A	101	127.479	-2.422	25.935	1.00	0.00
ATOM 1473	CG	PRO A	101	128.223	-2.260	24.656	1.00	0.00
ATOM 1474	CD	PRO A	101	127.753	-3.373	23.760	1.00	0.00
ATOM 1475	HA	PRO A	101	125.763	-3.670	26.276	1.00	0.00
ATOM 1476	1HB	PRO A	101	127.346	-1.474	26.439	1.00	0.00
ATOM 1477	2HB	PRO A	101	127.973	-3.120	26.594	1.00	0.00
ATOM 1478	1HG	PRO A	101	127.993	-1.301	24.216	1.00	0.00
ATOM 1479	2HG	PRO A	101	129.285	-2.347	24.835	1.00	0.00
ATOM 1480	1HD	PRO A	101	127.724	-3.042	22.731	1.00	0.00
ATOM 1481	2HD	PRO A	101	128.394	-4.236	23.862	1.00	0.00

ATOM 1482	N	SER A 102	125.139	-1.199	24.199	1.00	0.00
ATOM 1483	CA	SER A 102	124.225	-0.098	23.914	1.00	0.00
ATOM 1484	C	SER A 102	123.435	-0.365	22.637	1.00	0.00
ATOM 1485	O	SER A 102	124.012	-0.552	21.566	1.00	0.00
ATOM 1486	CB	SER A 102	125.000	1.213	23.781	1.00	0.00
ATOM 1487	OG	SER A 102	125.222	1.806	25.049	1.00	0.00
ATOM 1488	H	SER A 102	125.793	-1.465	23.521	1.00	0.00
ATOM 1489	HA	SER A 102	123.535	-0.016	24.739	1.00	0.00
ATOM 1490	1HB	SER A 102	125.956	1.020	23.317	1.00	0.00
ATOM 1491	2HB	SER A 102	124.437	1.902	23.168	1.00	0.00
ATOM 1492	HG	SER A 102	124.448	2.315	25.305	1.00	0.00
ATOM 1493	N	SER A 103	122.112	-0.385	22.759	1.00	0.00
ATOM 1494	CA	SER A 103	121.243	-0.631	21.614	1.00	0.00
ATOM 1495	C	SER A 103	119.920	0.115	21.765	1.00	0.00
ATOM 1496	O	SER A 103	119.107	-0.212	22.629	1.00	0.00
ATOM 1497	CB	SER A 103	120.982	-2.129	21.459	1.00	0.00
ATOM 1498	OG	SER A 103	120.388	-2.668	22.627	1.00	0.00
ATOM 1499	H	SER A 103	121.710	-0.229	23.639	1.00	0.00
ATOM 1500	HA	SER A 103	121.748	-0.268	20.731	1.00	0.00
ATOM 1501	1HB	SER A 103	120.316	-2.292	20.624	1.00	0.00
ATOM 1502	2HB	SER A 103	121.917	-2.639	21.276	1.00	0.00
ATOM 1503	HG	SER A 103	120.531	-3.617	22.650	1.00	0.00
ATOM 1504	N	GLY A 104	119.713	1.118	20.918	1.00	0.00
ATOM 1505	CA	GLY A 104	118.488	1.894	20.973	1.00	0.00
ATOM 1506	C	GLY A 104	117.863	2.089	19.605	1.00	0.00
ATOM 1507	O	GLY A 104	117.616	3.253	19.226	1.00	0.00
ATOM 1508	OXT	GLY A 104	117.621	1.078	18.914	1.00	0.00
ATOM 1509	H	GLY A 104	120.396	1.333	20.250	1.00	0.00
ATOM 1510	1HA	GLY A 104	117.780	1.384	21.611	1.00	0.00

ATOM 1511 2HA GLY A 104 118.707 2.862 21.398 1.00 0.00
TER 1512 GLY A 104
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ATOM 1	N	GLY A	1	137.007	6.698	11.421	1.00	0.00
ATOM 2	CA	GLY A	1	136.169	6.784	12.650	1.00	0.00
ATOM 3	C	GLY A	1	135.283	8.014	12.663	1.00	0.00
ATOM 4	O	GLY A	1	134.315	8.099	11.908	1.00	0.00
ATOM 5	1H	GLY A	1	137.956	6.347	11.659	1.00	0.00
ATOM 6	2H	GLY A	1	137.096	7.637	10.983	1.00	0.00
ATOM 7	3H	GLY A	1	136.570	6.049	10.736	1.00	0.00
ATOM 8	1HA	GLY A	1	135.546	5.905	12.709	1.00	0.00
ATOM 9	2HA	GLY A	1	136.818	6.813	13.512	1.00	0.00
ATOM 10	N	SER A	2	135.616	8.971	13.523	1.00	0.00
ATOM 11	CA	SER A	2	134.844	10.204	13.632	1.00	0.00
ATOM 12	C	SER A	2	135.755	11.425	13.568	1.00	0.00
ATOM 13	O	SER A	2	135.655	12.239	12.650	1.00	0.00
ATOM 14	CB	SER A	2	134.046	10.217	14.938	1.00	0.00
ATOM 15	OG	SER A	2	132.921	9.360	14.856	1.00	0.00
ATOM 16	H	SER A	2	136.399	8.846	14.098	1.00	0.00
ATOM 17	HA	SER A	2	134.156	10.239	12.801	1.00	0.00
ATOM 18	1HB	SER A	2	134.678	9.882	15.747	1.00	0.00
ATOM 19	2HB	SER A	2	133.705	11.221	15.139	1.00	0.00
ATOM 20	HG	SER A	2	133.192	8.456	15.029	1.00	0.00
ATOM 21	N	SER A	3	136.645	11.545	14.548	1.00	0.00
ATOM 22	CA	SER A	3	137.575	12.668	14.603	1.00	0.00
ATOM 23	C	SER A	3	138.909	12.299	13.962	1.00	0.00

ATOM 24	O	SER A	3	139.477	11.244	14.248	1.00	0.00
ATOM 25	CB	SER A	3	137.794	13.104	16.051	1.00	0.00
ATOM 26	OG	SER A	3	138.507	14.328	16.114	1.00	0.00
ATOM 27	H	SER A	3	136.676	10.863	15.252	1.00	0.00
ATOM 28	HA	SER A	3	137.139	13.487	14.051	1.00	0.00
ATOM 29	1HB	SER A	3	136.838	13.234	16.536	1.00	0.00
ATOM 30	2HB	SER A	3	138.361	12.346	16.573	1.00	0.00
ATOM 31	HG	SER A	3	137.906	15.057	15.945	1.00	0.00
ATOM 32	N	GLY A	4	139.405	13.175	13.095	1.00	0.00
ATOM 33	CA	GLY A	4	140.670	12.923	12.429	1.00	0.00
ATOM 34	C	GLY A	4	141.383	14.202	12.034	1.00	0.00
ATOM 35	O	GLY A	4	141.365	15.184	12.776	1.00	0.00
ATOM 36	H	GLY A	4	138.910	13.999	12.906	1.00	0.00
ATOM 37	1HA	GLY A	4	141.308	12.359	13.092	1.00	0.00
ATOM 38	2HA	GLY A	4	140.485	12.338	11.540	1.00	0.00
ATOM 39	N	SER A	5	142.011	14.190	10.862	1.00	0.00
ATOM 40	CA	SER A	5	142.733	15.357	10.370	1.00	0.00
ATOM 41	C	SER A	5	143.282	15.107	8.970	1.00	0.00
ATOM 42	O	SER A	5	143.247	15.990	8.111	1.00	0.00
ATOM 43	CB	SER A	5	143.875	15.715	11.323	1.00	0.00
ATOM 44	OG	SER A	5	144.821	14.662	11.403	1.00	0.00
ATOM 45	H	SER A	5	141.988	13.376	10.316	1.00	0.00
ATOM 46	HA	SER A	5	142.038	16.183	10.329	1.00	0.00
ATOM 47	1HB	SER A	5	144.374	16.603	10.965	1.00	0.00
ATOM 48	2HB	SER A	5	143.475	15.900	12.308	1.00	0.00
ATOM 49	HG	SER A	5	144.396	13.877	11.755	1.00	0.00
ATOM 50	N	SER A	6	143.790	13.900	8.745	1.00	0.00
ATOM 51	CA	SER A	6	144.347	13.534	7.449	1.00	0.00
ATOM 52	C	SER A	6	143.297	13.657	6.350	1.00	0.00

ATOM 53	O	SER A	6	143.595	14.099	5.240	1.00	0.00
ATOM 54	CB	SER A	6	144.893	12.105	7.490	1.00	0.00
ATOM 55	OG	SER A	6	146.049	11.976	6.680	1.00	0.00
ATOM 56	H	SER A	6	143.790	13.239	9.470	1.00	0.00
ATOM 57	HA	SER A	6	145.158	14.212	7.233	1.00	0.00
ATOM 58	1HB	SER A	6	145.151	11.849	8.506	1.00	0.00
ATOM 59	2HB	SER A	6	144.137	11.422	7.128	1.00	0.00
ATOM 60	HG	SER A	6	146.833	12.117	7.216	1.00	0.00
ATOM 61	N	GLY A	7	142.068	13.266	6.667	1.00	0.00
ATOM 62	CA	GLY A	7	140.992	13.341	5.695	1.00	0.00
ATOM 63	C	GLY A	7	139.657	12.913	6.273	1.00	0.00
ATOM 64	O	GLY A	7	139.594	12.396	7.389	1.00	0.00
ATOM 65	H	GLY A	7	141.888	12.922	7.567	1.00	0.00
ATOM 66	1HA	GLY A	7	140.909	14.360	5.345	1.00	0.00
ATOM 67	2HA	GLY A	7	141.231	12.703	4.858	1.00	0.00
ATOM 68	N	LEU A	8	138.589	13.127	5.512	1.00	0.00
ATOM 69	CA	LEU A	8	137.249	12.759	5.955	1.00	0.00
ATOM 70	C	LEU A	8	136.760	11.511	5.229	1.00	0.00
ATOM 71	O	LEU A	8	137.474	10.939	4.405	1.00	0.00
ATOM 72	CB	LEU A	8	136.275	13.916	5.719	1.00	0.00
ATOM 73	CG	LEU A	8	136.473	15.126	6.634	1.00	0.00
ATOM 74	CD1	LEU A	8	136.089	16.408	5.913	1.00	0.00
ATOM 75	CD2	LEU A	8	135.660	14.964	7.911	1.00	0.00
ATOM 76	H	LEU A	8	138.704	13.542	4.632	1.00	0.00
ATOM 77	HA	LEU A	8	137.296	12.551	7.014	1.00	0.00
ATOM 78	1HB	LEU A	8	136.382	14.244	4.695	1.00	0.00
ATOM 79	2HB	LEU A	8	135.271	13.547	5.859	1.00	0.00
ATOM 80	HG	LEU A	8	137.516	15.195	6.907	1.00	0.00
ATOM 81	1HD1	LEU A	8	136.166	17.241	6.597	1.00	0.00

ATOM 82	2HD1	LEU	A	8	135.073	16.330	5.555	1.00	0.00
ATOM 83	3HD1	LEU	A	8	136.755	16.565	5.078	1.00	0.00
ATOM 84	1HD2	LEU	A	8	136.213	15.371	8.743	1.00	0.00
ATOM 85	2HD2	LEU	A	8	135.467	13.916	8.084	1.00	0.00
ATOM 86	3HD2	LEU	A	8	134.723	15.491	7.809	1.00	0.00
ATOM 87	N	ALA	A	9	135.537	11.093	5.538	1.00	0.00
ATOM 88	CA	ALA	A	9	134.950	9.912	4.916	1.00	0.00
ATOM 89	C	ALA	A	9	133.745	10.285	4.060	1.00	0.00
ATOM 90	O	ALA	A	9	132.629	10.414	4.565	1.00	0.00
ATOM 91	CB	ALA	A	9	134.554	8.899	5.978	1.00	0.00
ATOM 92	H	ALA	A	9	135.015	11.591	6.203	1.00	0.00
ATOM 93	HA	ALA	A	9	135.701	9.462	4.284	1.00	0.00
ATOM 94	1HB	ALA	A	9	135.139	9.064	6.870	1.00	0.00
ATOM 95	2HB	ALA	A	9	134.735	7.900	5.608	1.00	0.00
ATOM 96	3HB	ALA	A	9	133.505	9.011	6.209	1.00	0.00
ATOM 97	N	MET	A	10	133.977	10.453	2.763	1.00	0.00
ATOM 98	CA	MET	A	10	132.909	10.809	1.836	1.00	0.00
ATOM 99	C	MET	A	10	133.235	10.328	0.423	1.00	0.00
ATOM 100	O	MET	A	10	134.398	10.306	0.019	1.00	0.00
ATOM 101	CB	MET	A	10	132.689	12.324	1.837	1.00	0.00
ATOM 102	CG	MET	A	10	131.224	12.725	1.906	1.00	0.00
ATOM 103	SD	MET	A	10	130.954	14.197	2.912	1.00	0.00
ATOM 104	CE	MET	A	10	129.806	15.105	1.880	1.00	0.00
ATOM 105	H	MET	A	10	134.887	10.335	2.421	1.00	0.00
ATOM 106	HA	MET	A	10	132.007	10.322	2.170	1.00	0.00
ATOM 107	1HB	MET	A	10	133.197	12.749	2.690	1.00	0.00
ATOM 108	2HB	MET	A	10	133.112	12.740	0.934	1.00	0.00
ATOM 109	1HG	MET	A	10	130.871	12.921	0.905	1.00	0.00
ATOM 110	2HG	MET	A	10	130.661	11.908	2.331	1.00	0.00

ATOM 111	1HE	MET A	10	128.831	15.110	2.345	1.00	0.00
ATOM 112	2HE	MET A	10	129.742	14.634	0.911	1.00	0.00
ATOM 113	3HE	MET A	10	130.153	16.122	1.763	1.00	0.00
ATOM 114	N	PRO A	11	132.208	9.938	-0.352	1.00	0.00
ATOM 115	CA	PRO A	11	132.396	9.459	-1.725	1.00	0.00
ATOM 116	C	PRO A	11	133.132	10.473	-2.599	1.00	0.00
ATOM 117	O	PRO A	11	134.059	10.114	-3.325	1.00	0.00
ATOM 118	CB	PRO A	11	130.970	9.244	-2.241	1.00	0.00
ATOM 119	CG	PRO A	11	130.125	9.113	-1.020	1.00	0.00
ATOM 120	CD	PRO A	11	130.790	9.935	0.049	1.00	0.00
ATOM 121	HA	PRO A	11	132.931	8.521	-1.742	1.00	0.00
ATOM 122	1HB	PRO A	11	130.671	10.090	-2.841	1.00	0.00
ATOM 123	2HB	PRO A	11	130.936	8.345	-2.840	1.00	0.00
ATOM 124	1HG	PRO A	11	129.137	9.495	-1.219	1.00	0.00
ATOM 125	2HG	PRO A	11	130.075	8.078	-0.718	1.00	0.00
ATOM 126	1HD	PRO A	11	130.391	10.938	0.056	1.00	0.00
ATOM 127	2HD	PRO A	11	130.664	9.470	1.014	1.00	0.00
ATOM 128	N	PRO A	12	132.736	11.759	-2.541	1.00	0.00
ATOM 129	CA	PRO A	12	133.378	12.813	-3.334	1.00	0.00
ATOM 130	C	PRO A	12	134.869	12.923	-3.039	1.00	0.00
ATOM 131	O	PRO A	12	135.631	13.466	-3.838	1.00	0.00
ATOM 132	CB	PRO A	12	132.653	14.092	-2.900	1.00	0.00
ATOM 133	CG	PRO A	12	131.361	13.627	-2.322	1.00	0.00
ATOM 134	CD	PRO A	12	131.646	12.290	-1.702	1.00	0.00
ATOM 135	HA	PRO A	12	133.232	12.654	-4.392	1.00	0.00
ATOM 136	1HB	PRO A	12	133.249	14.614	-2.166	1.00	0.00
ATOM 137	2HB	PRO A	12	132.494	14.727	-3.758	1.00	0.00
ATOM 138	1HG	PRO A	12	131.023	14.325	-1.569	1.00	0.00
ATOM 139	2HG	PRO A	12	130.622	13.529	-3.102	1.00	0.00

ATOM 140	1HD	PRO A	12	131.969	12.408	-0.678	1.00	0.00
ATOM 141	2HD	PRO A	12	130.775	11.657	-1.754	1.00	0.00
ATOM 142	N	GLY A	13	135.278	12.404	-1.885	1.00	0.00
ATOM 143	CA	GLY A	13	136.677	12.454	-1.503	1.00	0.00
ATOM 144	C	GLY A	13	137.536	11.512	-2.324	1.00	0.00
ATOM 145	O	GLY A	13	138.032	11.882	-3.388	1.00	0.00
ATOM 146	H	GLY A	13	134.624	11.983	-1.287	1.00	0.00
ATOM 147	1HA	GLY A	13	137.039	13.462	-1.637	1.00	0.00
ATOM 148	2HA	GLY A	13	136.764	12.186	-0.460	1.00	0.00
ATOM 149	N	ASN A	14	137.714	10.292	-1.828	1.00	0.00
ATOM 150	CA	ASN A	14	138.520	9.294	-2.521	1.00	0.00
ATOM 151	C	ASN A	14	137.658	8.456	-3.459	1.00	0.00
ATOM 152	O	ASN A	14	137.807	8.520	-4.680	1.00	0.00
ATOM 153	CB	ASN A	14	139.226	8.385	-1.513	1.00	0.00
ATOM 154	CG	ASN A	14	139.889	9.167	-0.395	1.00	0.00
ATOM 155	OD1	ASN A	14	139.791	8.801	0.776	1.00	0.00
ATOM 156	ND2	ASN A	14	140.569	10.250	-0.752	1.00	0.00
ATOM 157	H	ASN A	14	137.292	10.057	-0.975	1.00	0.00
ATOM 158	HA	ASN A	14	139.263	9.816	-3.105	1.00	0.00
ATOM 159	1HB	ASN A	14	138.503	7.712	-1.076	1.00	0.00
ATOM 160	2HB	ASN A	14	139.983	7.811	-2.025	1.00	0.00
ATOM 161	1HD2	ASN A	14	140.604	10.482	-1.704	1.00	0.00
ATOM 162	2HD2	ASN A	14	141.006	10.774	-0.049	1.00	0.00
ATOM 163	N	SER A	15	136.756	7.668	-2.882	1.00	0.00
ATOM 164	CA	SER A	15	135.870	6.817	-3.666	1.00	0.00
ATOM 165	C	SER A	15	134.814	6.168	-2.777	1.00	0.00
ATOM 166	O	SER A	15	133.642	6.086	-3.146	1.00	0.00
ATOM 167	CB	SER A	15	136.675	5.738	-4.392	1.00	0.00
ATOM 168	OG	SER A	15	136.145	5.486	-5.682	1.00	0.00

ATOM 169	H	SER A	15	136.685	7.661	-1.904	1.00	0.00
ATOM 170	HA	SER A	15	135.375	7.438	-4.397	1.00	0.00
ATOM 171	1HB	SER A	15	137.699	6.064	-4.495	1.00	0.00
ATOM 172	2HB	SER A	15	136.645	4.822	-3.819	1.00	0.00
ATOM 173	HG	SER A	15	136.794	5.013	-6.208	1.00	0.00
ATOM 174	N	HIS A	16	135.237	5.708	-1.604	1.00	0.00
ATOM 175	CA	HIS A	16	134.328	5.066	-0.661	1.00	0.00
ATOM 176	C	HIS A	16	134.819	5.241	0.773	1.00	0.00
ATOM 177	O	HIS A	16	134.579	4.390	1.629	1.00	0.00
ATOM 178	CB	HIS A	16	134.188	3.578	-0.988	1.00	0.00
ATOM 179	CG	HIS A	16	133.030	3.270	-1.886	1.00	0.00
ATOM 180	ND1	HIS A	16	131.716	3.386	-1.485	1.00	0.00
ATOM 181	CD2	HIS A	16	132.994	2.848	-3.173	1.00	0.00
ATOM 182	CE1	HIS A	16	130.921	3.048	-2.485	1.00	0.00
ATOM 183	NE2	HIS A	16	131.672	2.718	-3.520	1.00	0.00
ATOM 184	H	HIS A	16	136.183	5.803	-1.367	1.00	0.00
ATOM 185	HA	HIS A	16	133.363	5.540	-0.758	1.00	0.00
ATOM 186	1HB	HIS A	16	135.087	3.239	-1.479	1.00	0.00
ATOM 187	2HB	HIS A	16	134.054	3.026	-0.069	1.00	0.00
ATOM 188	HD1	HIS A	16	131.410	3.672	-0.599	1.00	0.00
ATOM 189	HD2	HIS A	16	133.846	2.651	-3.806	1.00	0.00
ATOM 190	HE1	HIS A	16	129.841	3.042	-2.461	1.00	0.00
ATOM 191	HE2	HIS A	16	131.339	2.344	-4.363	1.00	0.00
ATOM 192	N	GLY A	17	135.509	6.349	1.026	1.00	0.00
ATOM 193	CA	GLY A	17	136.023	6.614	2.357	1.00	0.00
ATOM 194	C	GLY A	17	137.291	5.838	2.655	1.00	0.00
ATOM 195	O	GLY A	17	137.373	5.129	3.658	1.00	0.00
ATOM 196	H	GLY A	17	135.671	6.991	0.304	1.00	0.00
ATOM 197	1HA	GLY A	17	136.231	7.669	2.447	1.00	0.00

ATOM 198	2HA	GLY A	17	135.271	6.343	3.082	1.00	0.00
ATOM 199	N	LEU A	18	138.283	5.971	1.780	1.00	0.00
ATOM 200	CA	LEU A	18	139.554	5.277	1.953	1.00	0.00
ATOM 201	C	LEU A	18	140.649	6.246	2.386	1.00	0.00
ATOM 202	O	LEU A	18	141.244	6.935	1.559	1.00	0.00
ATOM 203	CB	LEU A	18	139.959	4.580	0.654	1.00	0.00
ATOM 204	CG	LEU A	18	138.878	3.699	0.027	1.00	0.00
ATOM 205	CD1	LEU A	18	139.227	3.369	-1.416	1.00	0.00
ATOM 206	CD2	LEU A	18	138.695	2.424	0.837	1.00	0.00
ATOM 207	H	LEU A	18	138.157	6.552	1.000	1.00	0.00
ATOM 208	HA	LEU A	18	139.423	4.533	2.725	1.00	0.00
ATOM 209	1HB	LEU A	18	140.239	5.337	-0.064	1.00	0.00
ATOM 210	2HB	LEU A	18	140.822	3.963	0.855	1.00	0.00
ATOM 211	HG	LEU A	18	137.940	4.234	0.029	1.00	0.00
ATOM 212	1HD1	LEU A	18	140.039	2.657	-1.436	1.00	0.00
ATOM 213	2HD1	LEU A	18	139.526	4.271	-1.929	1.00	0.00
ATOM 214	3HD1	LEU A	18	138.364	2.944	-1.908	1.00	0.00
ATOM 215	1HD2	LEU A	18	138.956	2.612	1.868	1.00	0.00
ATOM 216	2HD2	LEU A	18	139.334	1.649	0.440	1.00	0.00
ATOM 217	3HD2	LEU A	18	137.664	2.105	0.779	1.00	0.00
ATOM 218	N	GLU A	19	140.909	6.294	3.689	1.00	0.00
ATOM 219	CA	GLU A	19	141.933	7.179	4.232	1.00	0.00
ATOM 220	C	GLU A	19	142.893	6.410	5.134	1.00	0.00
ATOM 221	O	GLU A	19	142.733	5.209	5.347	1.00	0.00
ATOM 222	CB	GLU A	19	141.286	8.323	5.014	1.00	0.00
ATOM 223	CG	GLU A	19	140.180	7.869	5.954	1.00	0.00
ATOM 224	CD	GLU A	19	138.807	7.933	5.313	1.00	0.00
ATOM 225	OE1	GLU A	19	137.904	7.200	5.770	1.00	0.00
ATOM 226	OE2	GLU A	19	138.636	8.715	4.354	1.00	0.00

ATOM 227	H	GLU A	19	140.400	5.720	4.299	1.00	0.00
ATOM 228	HA	GLU A	19	142.488	7.591	3.403	1.00	0.00
ATOM 229	1HB	GLU A	19	142.045	8.819	5.600	1.00	0.00
ATOM 230	2HB	GLU A	19	140.865	9.031	4.314	1.00	0.00
ATOM 231	1HG	GLU A	19	140.374	6.849	6.251	1.00	0.00
ATOM 232	2HG	GLU A	19	140.184	8.504	6.827	1.00	0.00
ATOM 233	N	VAL A	20	143.892	7.112	5.660	1.00	0.00
ATOM 234	CA	VAL A	20	144.879	6.496	6.540	1.00	0.00
ATOM 235	C	VAL A	20	144.212	5.870	7.760	1.00	0.00
ATOM 236	O	VAL A	20	143.239	6.406	8.292	1.00	0.00
ATOM 237	CB	VAL A	20	145.928	7.522	7.010	1.00	0.00
ATOM 238	CG1	VAL A	20	147.026	6.838	7.811	1.00	0.00
ATOM 239	CG2	VAL A	20	146.514	8.269	5.820	1.00	0.00
ATOM 240	H	VAL A	20	143.967	8.068	5.452	1.00	0.00
ATOM 241	HA	VAL A	20	145.386	5.723	5.982	1.00	0.00
ATOM 242	HB	VAL A	20	145.439	8.240	7.652	1.00	0.00
ATOM 243	1HG1	VAL A	20	147.242	5.874	7.375	1.00	0.00
ATOM 244	2HG1	VAL A	20	146.697	6.706	8.832	1.00	0.00
ATOM 245	3HG1	VAL A	20	147.917	7.448	7.795	1.00	0.00
ATOM 246	1HG2	VAL A	20	146.464	7.643	4.942	1.00	0.00
ATOM 247	2HG2	VAL A	20	147.544	8.520	6.025	1.00	0.00
ATOM 248	3HG2	VAL A	20	145.949	9.174	5.650	1.00	0.00
ATOM 249	N	GLY A	21	144.742	4.733	8.199	1.00	0.00
ATOM 250	CA	GLY A	21	144.184	4.052	9.354	1.00	0.00
ATOM 251	C	GLY A	21	143.152	3.010	8.969	1.00	0.00
ATOM 252	O	GLY A	21	143.170	1.890	9.482	1.00	0.00
ATOM 253	H	GLY A	21	145.516	4.352	7.736	1.00	0.00
ATOM 254	1HA	GLY A	21	144.984	3.569	9.893	1.00	0.00
ATOM 255	2HA	GLY A	21	143.719	4.783	9.998	1.00	0.00

ATOM 256	N	SER A	22	142.249	3.378	8.067	1.00	0.00
ATOM 257	CA	SER A	22	141.204	2.467	7.615	1.00	0.00
ATOM 258	C	SER A	22	141.786	1.358	6.747	1.00	0.00
ATOM 259	O	SER A	22	142.822	1.538	6.104	1.00	0.00
ATOM 260	CB	SER A	22	140.134	3.232	6.834	1.00	0.00
ATOM 261	OG	SER A	22	139.423	4.122	7.678	1.00	0.00
ATOM 262	H	SER A	22	142.286	4.284	7.696	1.00	0.00
ATOM 263	HA	SER A	22	140.750	2.024	8.489	1.00	0.00
ATOM 264	1HB	SER A	22	140.604	3.802	6.047	1.00	0.00
ATOM 265	2HB	SER A	22	139.435	2.531	6.403	1.00	0.00
ATOM 266	HG	SER A	22	138.513	4.188	7.381	1.00	0.00
ATOM 267	N	LEU A	23	141.116	0.211	6.730	1.00	0.00
ATOM 268	CA	LEU A	23	141.567	-0.929	5.940	1.00	0.00
ATOM 269	C	LEU A	23	141.124	-0.794	4.487	1.00	0.00
ATOM 270	O	LEU A	23	140.077	-0.212	4.198	1.00	0.00
ATOM 271	CB	LEU A	23	141.027	-2.233	6.531	1.00	0.00
ATOM 272	CG	LEU A	23	141.478	-2.531	7.961	1.00	0.00
ATOM 273	CD1	LEU A	23	140.431	-3.358	8.690	1.00	0.00
ATOM 274	CD2	LEU A	23	142.820	-3.250	7.957	1.00	0.00
ATOM 275	H	LEU A	23	140.297	0.128	7.263	1.00	0.00
ATOM 276	HA	LEU A	23	142.646	-0.949	5.974	1.00	0.00
ATOM 277	1HB	LEU A	23	139.947	-2.188	6.518	1.00	0.00
ATOM 278	2HB	LEU A	23	141.345	-3.049	5.899	1.00	0.00
ATOM 279	HG	LEU A	23	141.599	-1.599	8.496	1.00	0.00
ATOM 280	1HD1	LEU A	23	139.753	-2.701	9.213	1.00	0.00
ATOM 281	2HD1	LEU A	23	140.918	-4.011	9.400	1.00	0.00
ATOM 282	3HD1	LEU A	23	139.879	-3.950	7.975	1.00	0.00
ATOM 283	1HD2	LEU A	23	143.428	-2.871	7.148	1.00	0.00
ATOM 284	2HD2	LEU A	23	142.659	-4.309	7.822	1.00	0.00

ATOM 285	3HD2	LEU A	23	143.323	-3.079	8.896	1.00	0.00
ATOM 286	N	ALA A	24	141.926	-1.332	3.576	1.00	0.00
ATOM 287	CA	ALA A	24	141.616	-1.272	2.153	1.00	0.00
ATOM 288	C	ALA A	24	142.176	-2.483	1.414	1.00	0.00
ATOM 289	O	ALA A	24	143.212	-3.029	1.794	1.00	0.00
ATOM 290	CB	ALA A	24	142.160	0.014	1.549	1.00	0.00
ATOM 291	H	ALA A	24	142.746	-1.783	3.867	1.00	0.00
ATOM 292	HA	ALA A	24	140.541	-1.265	2.046	1.00	0.00
ATOM 293	1HB	ALA A	24	141.945	0.035	0.491	1.00	0.00
ATOM 294	2HB	ALA A	24	143.229	0.059	1.700	1.00	0.00
ATOM 295	3HB	ALA A	24	141.694	0.863	2.027	1.00	0.00
ATOM 296	N	GLU A	25	141.485	-2.897	0.357	1.00	0.00
ATOM 297	CA	GLU A	25	141.914	-4.044	-0.436	1.00	0.00
ATOM 298	C	GLU A	25	142.278	-3.617	-1.855	1.00	0.00
ATOM 299	O	GLU A	25	141.740	-2.641	-2.377	1.00	0.00
ATOM 300	CB	GLU A	25	140.812	-5.104	-0.475	1.00	0.00
ATOM 301	CG	GLU A	25	141.271	-6.438	-1.041	1.00	0.00
ATOM 302	CD	GLU A	25	140.118	-7.287	-1.539	1.00	0.00
ATOM 303	OE1	GLU A	25	140.180	-8.524	-1.381	1.00	0.00
ATOM 304	OE2	GLU A	25	139.154	-6.715	-2.089	1.00	0.00
ATOM 305	H	GLU A	25	140.668	-2.420	0.104	1.00	0.00
ATOM 306	HA	GLU A	25	142.790	-4.465	0.037	1.00	0.00
ATOM 307	1HB	GLU A	25	140.451	-5.267	0.528	1.00	0.00
ATOM 308	2HB	GLU A	25	140.000	-4.739	-1.087	1.00	0.00
ATOM 309	1HG	GLU A	25	141.944	-6.253	-1.865	1.00	0.00
ATOM 310	2HG	GLU A	25	141.793	-6.982	-0.267	1.00	0.00
ATOM 311	N	VAL A	26	143.193	-4.356	-2.473	1.00	0.00
ATOM 312	CA	VAL A	26	143.628	-4.055	-3.833	1.00	0.00
ATOM 313	C	VAL A	26	143.295	-5.201	-4.783	1.00	0.00

ATOM 314	O	VAL A	26	143.563	-6.365	-4.486	1.00	0.00
ATOM 315	CB	VAL A	26	145.142	-3.779	-3.889	1.00	0.00
ATOM 316	CG1	VAL A	26	145.542	-3.276	-5.268	1.00	0.00
ATOM 317	CG2	VAL A	26	145.544	-2.784	-2.812	1.00	0.00
ATOM 318	H	VAL A	26	143.585	-5.123	-2.005	1.00	0.00
ATOM 319	HA	VAL A	26	143.108	-3.166	-4.160	1.00	0.00
ATOM 320	HB	VAL A	26	145.664	-4.708	-3.706	1.00	0.00
ATOM 321	1HG1	VAL A	26	145.881	-4.106	-5.870	1.00	0.00
ATOM 322	2HG1	VAL A	26	146.338	-2.552	-5.170	1.00	0.00
ATOM 323	3HG1	VAL A	26	144.690	-2.811	-5.743	1.00	0.00
ATOM 324	1HG2	VAL A	26	145.218	-1.794	-3.097	1.00	0.00
ATOM 325	2HG2	VAL A	26	146.618	-2.790	-2.699	1.00	0.00
ATOM 326	3HG2	VAL A	26	145.082	-3.061	-1.876	1.00	0.00
ATOM 327	N	LYS A	27	142.711	-4.862	-5.928	1.00	0.00
ATOM 328	CA	LYS A	27	142.343	-5.861	-6.923	1.00	0.00
ATOM 329	C	LYS A	27	143.544	-6.240	-7.783	1.00	0.00
ATOM 330	O	LYS A	27	143.826	-5.593	-8.793	1.00	0.00
ATOM 331	CB	LYS A	27	141.211	-5.337	-7.809	1.00	0.00
ATOM 332	CG	LYS A	27	139.824	-5.630	-7.261	1.00	0.00
ATOM 333	CD	LYS A	27	138.839	-4.529	-7.622	1.00	0.00
ATOM 334	CE	LYS A	27	137.412	-5.050	-7.659	1.00	0.00
ATOM 335	NZ	LYS A	27	137.180	-5.955	-8.818	1.00	0.00
ATOM 336	H	LYS A	27	142.524	-3.916	-6.107	1.00	0.00
ATOM 337	HA	LYS A	27	142.000	-6.741	-6.399	1.00	0.00
ATOM 338	1HB	LYS A	27	141.316	-4.267	-7.911	1.00	0.00
ATOM 339	2HB	LYS A	27	141.293	-5.792	-8.785	1.00	0.00
ATOM 340	1HG	LYS A	27	139.474	-6.563	-7.675	1.00	0.00
ATOM 341	2HG	LYS A	27	139.883	-5.709	-6.184	1.00	0.00
ATOM 342	1HD	LYS A	27	138.906	-3.743	-6.886	1.00	0.00

ATOM 343	2HD	LYS A	27	139.095	-4.136	-8.595	1.00	0.00
ATOM 344	1HE	LYS A	27	137.216	-5.592	-6.746	1.00	0.00
ATOM 345	2HE	LYS A	27	136.737	-4.209	-7.728	1.00	0.00
ATOM 346	1HZ	LYS A	27	138.080	-6.370	-9.134	1.00	0.00
ATOM 347	2HZ	LYS A	27	136.760	-5.425	-9.607	1.00	0.00
ATOM 348	3HZ	LYS A	27	136.531	-6.722	-8.548	1.00	0.00
ATOM 349	N	GLU A	28	144.248	-7.292	-7.378	1.00	0.00
ATOM 350	CA	GLU A	28	145.419	-7.756	-8.113	1.00	0.00
ATOM 351	C	GLU A	28	145.464	-9.280	-8.158	1.00	0.00
ATOM 352	O	GLU A	28	144.576	-9.953	-7.632	1.00	0.00
ATOM 353	CB	GLU A	28	146.698	-7.213	-7.470	1.00	0.00
ATOM 354	CG	GLU A	28	147.678	-6.624	-8.470	1.00	0.00
ATOM 355	CD	GLU A	28	147.048	-5.559	-9.346	1.00	0.00
ATOM 356	OE1	GLU A	28	147.122	-4.368	-8.979	1.00	0.00
ATOM 357	OE2	GLU A	28	146.480	-5.916	-10.400	1.00	0.00
ATOM 358	H	GLU A	28	143.974	-7.767	-6.566	1.00	0.00
ATOM 359	HA	GLU A	28	145.348	-7.381	-9.123	1.00	0.00
ATOM 360	1HB	GLU A	28	146.432	-6.442	-6.762	1.00	0.00
ATOM 361	2HB	GLU A	28	147.194	-8.016	-6.944	1.00	0.00
ATOM 362	1HG	GLU A	28	148.502	-6.180	-7.931	1.00	0.00
ATOM 363	2HG	GLU A	28	148.049	-7.417	-9.103	1.00	0.00
ATOM 364	N	ASN A	29	146.504	-9.819	-8.786	1.00	0.00
ATOM 365	CA	ASN A	29	146.664	-11.264	-8.897	1.00	0.00
ATOM 366	C	ASN A	29	146.770	-11.906	-7.515	1.00	0.00
ATOM 367	O	ASN A	29	145.957	-12.756	-7.154	1.00	0.00
ATOM 368	CB	ASN A	29	147.905	-11.598	-9.727	1.00	0.00
ATOM 369	CG	ASN A	29	147.568	-11.905	-11.173	1.00	0.00
ATOM 370	OD1	ASN A	29	147.707	-13.040	-11.628	1.00	0.00
ATOM 371	ND2	ASN A	29	147.121	-10.890	-11.905	1.00	0.00

ATOM 372	H	ASN A	29	147.179	-9.231	-9.184	1.00	0.00
ATOM 373	HA	ASN A	29	145.791	-11.656	-9.396	1.00	0.00
ATOM 374	1HB	ASN A	29	148.582	-10.758	-9.706	1.00	0.00
ATOM 375	2HB	ASN A	29	148.395	-12.461	-9.300	1.00	0.00
ATOM 376	1HD2	ASN A	29	147.036	-10.013	-11.476	1.00	0.00
ATOM 377	2HD2	ASN A	29	146.896	-11.059	-12.842	1.00	0.00
ATOM 378	N	PRO A	30	147.778	-11.503	-6.723	1.00	0.00
ATOM 379	CA	PRO A	30	147.987	-12.042	-5.377	1.00	0.00
ATOM 380	C	PRO A	30	147.010	-11.453	-4.360	1.00	0.00
ATOM 381	O	PRO A	30	147.110	-10.279	-4.003	1.00	0.00
ATOM 382	CB	PRO A	30	149.417	-11.613	-5.053	1.00	0.00
ATOM 383	CG	PRO A	30	149.612	-10.350	-5.820	1.00	0.00
ATOM 384	CD	PRO A	30	148.794	-10.492	-7.077	1.00	0.00
ATOM 385	HA	PRO A	30	147.919	-13.119	-5.365	1.00	0.00
ATOM 386	1HB	PRO A	30	149.514	-11.450	-3.989	1.00	0.00
ATOM 387	2HB	PRO A	30	150.108	-12.378	-5.371	1.00	0.00
ATOM 388	1HG	PRO A	30	149.261	-9.510	-5.238	1.00	0.00
ATOM 389	2HG	PRO A	30	150.656	-10.228	-6.065	1.00	0.00
ATOM 390	1HD	PRO A	30	148.328	-9.553	-7.331	1.00	0.00
ATOM 391	2HD	PRO A	30	149.413	-10.838	-7.892	1.00	0.00
ATOM 392	N	PRO A	31	146.049	-12.260	-3.875	1.00	0.00
ATOM 393	CA	PRO A	31	145.058	-11.803	-2.895	1.00	0.00
ATOM 394	C	PRO A	31	145.678	-11.530	-1.530	1.00	0.00
ATOM 395	O	PRO A	31	145.993	-12.457	-0.783	1.00	0.00
ATOM 396	CB	PRO A	31	144.073	-12.971	-2.811	1.00	0.00
ATOM 397	CG	PRO A	31	144.865	-14.165	-3.217	1.00	0.00
ATOM 398	CD	PRO A	31	145.851	-13.676	-4.241	1.00	0.00
ATOM 399	HA	PRO A	31	144.543	-10.918	-3.239	1.00	0.00
ATOM 400	1HB	PRO A	31	143.707	-13.064	-1.799	1.00	0.00

ATOM 401	2HB	PRO A	31	143.247	-12.798	-3.485	1.00	0.00
ATOM 402	1HG	PRO A	31	145.383	-14.570	-2.361	1.00	0.00
ATOM 403	2HG	PRO A	31	144.213	-14.909	-3.651	1.00	0.00
ATOM 404	1HD	PRO A	31	146.777	-14.227	-4.165	1.00	0.00
ATOM 405	2HD	PRO A	31	145.439	-13.763	-5.235	1.00	0.00
ATOM 406	N	PHE A	32	145.851	-10.252	-1.209	1.00	0.00
ATOM 407	CA	PHE A	32	146.434	-9.855	0.067	1.00	0.00
ATOM 408	C	PHE A	32	145.612	-8.748	0.720	1.00	0.00
ATOM 409	O	PHE A	32	144.860	-8.042	0.049	1.00	0.00
ATOM 410	CB	PHE A	32	147.877	-9.388	-0.130	1.00	0.00
ATOM 411	CG	PHE A	32	148.019	-8.298	-1.154	1.00	0.00
ATOM 412	CD1	PHE A	32	147.534	-7.025	-0.902	1.00	0.00
ATOM 413	CD2	PHE A	32	148.640	-8.547	-2.368	1.00	0.00
ATOM 414	CE1	PHE A	32	147.664	-6.020	-1.841	1.00	0.00
ATOM 415	CE2	PHE A	32	148.773	-7.546	-3.312	1.00	0.00
ATOM 416	CZ	PHE A	32	148.284	-6.282	-3.048	1.00	0.00
ATOM 417	H	PHE A	32	145.580	-9.558	-1.846	1.00	0.00
ATOM 418	HA	PHE A	32	146.430	-10.719	0.715	1.00	0.00
ATOM 419	1HB	PHE A	32	148.258	-9.013	0.808	1.00	0.00
ATOM 420	2HB	PHE A	32	148.479	-10.226	-0.449	1.00	0.00
ATOM 421	HD1	PHE A	32	147.050	-6.820	0.041	1.00	0.00
ATOM 422	HD2	PHE A	32	149.021	-9.536	-2.575	1.00	0.00
ATOM 423	HE1	PHE A	32	147.282	-5.032	-1.634	1.00	0.00
ATOM 424	HE2	PHE A	32	149.257	-7.753	-4.255	1.00	0.00
ATOM 425	HZ	PHE A	32	148.387	-5.497	-3.785	1.00	0.00
ATOM 426	N	TYR A	33	145.762	-8.603	2.033	1.00	0.00
ATOM 427	CA	TYR A	33	145.034	-7.581	2.776	1.00	0.00
ATOM 428	C	TYR A	33	145.997	-6.644	3.499	1.00	0.00
ATOM 429	O	TYR A	33	147.087	-7.049	3.903	1.00	0.00

ATOM 430	CB	TYR A	33	144.087	-8.234	3.785	1.00	0.00
ATOM 431	CG	TYR A	33	142.732	-8.579	3.208	1.00	0.00
ATOM 432	CD1	TYR A	33	141.918	-7.595	2.662	1.00	0.00
ATOM 433	CD2	TYR A	33	142.269	-9.888	3.211	1.00	0.00
ATOM 434	CE1	TYR A	33	140.679	-7.907	2.134	1.00	0.00
ATOM 435	CE2	TYR A	33	141.032	-10.209	2.685	1.00	0.00
ATOM 436	CZ	TYR A	33	140.241	-9.215	2.148	1.00	0.00
ATOM 437	OH	TYR A	33	139.009	-9.529	1.623	1.00	0.00
ATOM 438	H	TYR A	33	146.377	-9.197	2.512	1.00	0.00
ATOM 439	HA	TYR A	33	144.454	-7.007	2.070	1.00	0.00
ATOM 440	1HB	TYR A	33	144.533	-9.146	4.150	1.00	0.00
ATOM 441	2HB	TYR A	33	143.933	-7.557	4.614	1.00	0.00
ATOM 442	HD1	TYR A	33	142.264	-6.572	2.652	1.00	0.00
ATOM 443	HD2	TYR A	33	142.890	-10.665	3.633	1.00	0.00
ATOM 444	HE1	TYR A	33	140.061	-7.129	1.713	1.00	0.00
ATOM 445	HE2	TYR A	33	140.689	-11.232	2.695	1.00	0.00
ATOM 446	HH	TYR A	33	139.108	-9.788	0.703	1.00	0.00
ATOM 447	N	GLY A	34	145.588	-5.390	3.655	1.00	0.00
ATOM 448	CA	GLY A	34	146.426	-4.415	4.328	1.00	0.00
ATOM 449	C	GLY A	34	145.678	-3.140	4.665	1.00	0.00
ATOM 450	O	GLY A	34	144.607	-2.877	4.118	1.00	0.00
ATOM 451	H	GLY A	34	144.709	-5.124	3.312	1.00	0.00
ATOM 452	1HA	GLY A	34	146.802	-4.851	5.242	1.00	0.00
ATOM 453	2HA	GLY A	34	147.260	-4.172	3.688	1.00	0.00
ATOM 454	N	VAL A	35	146.244	-2.346	5.568	1.00	0.00
ATOM 455	CA	VAL A	35	145.624	-1.091	5.977	1.00	0.00
ATOM 456	C	VAL A	35	146.363	0.106	5.385	1.00	0.00
ATOM 457	O	VAL A	35	147.579	0.065	5.197	1.00	0.00
ATOM 458	CB	VAL A	35	145.590	-0.957	7.512	1.00	0.00

ATOM 459	CG1	VAL A	35	147.001	-0.934	8.085	1.00	0.00
ATOM 460	CG2	VAL A	35	144.819	0.290	7.924	1.00	0.00
ATOM 461	H	VAL A	35	147.099	-2.610	5.969	1.00	0.00
ATOM 462	HA	VAL A	35	144.607	-1.089	5.613	1.00	0.00
ATOM 463	HB	VAL A	35	145.078	-1.818	7.917	1.00	0.00
ATOM 464	1HG1	VAL A	35	147.266	0.078	8.350	1.00	0.00
ATOM 465	2HG1	VAL A	35	147.694	-1.306	7.345	1.00	0.00
ATOM 466	3HG1	VAL A	35	147.042	-1.560	8.964	1.00	0.00
ATOM 467	1HG2	VAL A	35	145.219	1.148	7.405	1.00	0.00
ATOM 468	2HG2	VAL A	35	144.916	0.437	8.990	1.00	0.00
ATOM 469	3HG2	VAL A	35	143.777	0.168	7.671	1.00	0.00
ATOM 470	N	ILE A	36	145.621	1.169	5.094	1.00	0.00
ATOM 471	CA	ILE A	36	146.207	2.375	4.523	1.00	0.00
ATOM 472	C	ILE A	36	147.145	3.051	5.518	1.00	0.00
ATOM 473	O	ILE A	36	146.891	3.051	6.723	1.00	0.00
ATOM 474	CB	ILE A	36	145.120	3.381	4.093	1.00	0.00
ATOM 475	CG1	ILE A	36	144.081	2.694	3.203	1.00	0.00
ATOM 476	CG2	ILE A	36	145.747	4.563	3.367	1.00	0.00
ATOM 477	CD1	ILE A	36	142.977	3.619	2.739	1.00	0.00
ATOM 478	H	ILE A	36	144.656	1.141	5.267	1.00	0.00
ATOM 479	HA	ILE A	36	146.771	2.090	3.647	1.00	0.00
ATOM 480	HB	ILE A	36	144.634	3.753	4.981	1.00	0.00
ATOM 481	1HG1	ILE A	36	144.572	2.298	2.327	1.00	0.00
ATOM 482	2HG1	ILE A	36	143.626	1.883	3.753	1.00	0.00
ATOM 483	1HG2	ILE A	36	144.978	5.272	3.103	1.00	0.00
ATOM 484	2HG2	ILE A	36	146.239	4.214	2.471	1.00	0.00
ATOM 485	3HG2	ILE A	36	146.472	5.038	4.013	1.00	0.00
ATOM 486	1HD1	ILE A	36	143.311	4.643	2.812	1.00	0.00
ATOM 487	2HD1	ILE A	36	142.105	3.479	3.360	1.00	0.00

ATOM 488	3HD1	ILE	A	36	142.728	3.394	1.711	1.00	0.00
ATOM 489	N	ARG	A	37	148.228	3.626	5.006	1.00	0.00
ATOM 490	CA	ARG	A	37	149.204	4.304	5.850	1.00	0.00
ATOM 491	C	ARG	A	37	149.446	5.729	5.366	1.00	0.00
ATOM 492	O	ARG	A	37	149.122	6.695	6.059	1.00	0.00
ATOM 493	CB	ARG	A	37	150.523	3.529	5.865	1.00	0.00
ATOM 494	CG	ARG	A	37	150.357	2.054	6.182	1.00	0.00
ATOM 495	CD	ARG	A	37	150.282	1.811	7.681	1.00	0.00
ATOM 496	NE	ARG	A	37	149.059	2.357	8.264	1.00	0.00
ATOM 497	CZ	ARG	A	37	148.901	2.596	9.564	1.00	0.00
ATOM 498	NH1	ARG	A	37	149.884	2.341	10.419	1.00	0.00
ATOM 499	NH2	ARG	A	37	147.755	3.094	10.011	1.00	0.00
ATOM 500	H	ARG	A	37	148.374	3.592	4.037	1.00	0.00
ATOM 501	HA	ARG	A	37	148.808	4.340	6.853	1.00	0.00
ATOM 502	1HB	ARG	A	37	150.989	3.617	4.894	1.00	0.00
ATOM 503	2HB	ARG	A	37	151.174	3.964	6.608	1.00	0.00
ATOM 504	1HG	ARG	A	37	149.445	1.696	5.725	1.00	0.00
ATOM 505	2HG	ARG	A	37	151.200	1.511	5.780	1.00	0.00
ATOM 506	1HD	ARG	A	37	150.312	0.748	7.862	1.00	0.00
ATOM 507	2HD	ARG	A	37	151.134	2.279	8.150	1.00	0.00
ATOM 508	HE	ARG	A	37	148.317	2.555	7.656	1.00	0.00
ATOM 509	1HH1	ARG	A	37	150.750	1.966	10.088	1.00	0.00
ATOM 510	2HH1	ARG	A	37	149.759	2.524	11.393	1.00	0.00
ATOM 511	1HH2	ARG	A	37	147.012	3.289	9.372	1.00	0.00
ATOM 512	2HH2	ARG	A	37	147.636	3.274	10.988	1.00	0.00
ATOM 513	N	TRP	A	38	150.018	5.857	4.174	1.00	0.00
ATOM 514	CA	TRP	A	38	150.303	7.167	3.600	1.00	0.00
ATOM 515	C	TRP	A	38	149.570	7.354	2.273	1.00	0.00
ATOM 516	O	TRP	A	38	149.606	6.486	1.403	1.00	0.00

ATOM 517	CB	TRP A	38	151.811	7.343	3.394	1.00	0.00
ATOM 518	CG	TRP A	38	152.167	8.555	2.584	1.00	0.00
ATOM 519	CD1	TRP A	38	152.439	9.807	3.055	1.00	0.00
ATOM 520	CD2	TRP A	38	152.280	8.629	1.158	1.00	0.00
ATOM 521	NE1	TRP A	38	152.716	10.655	2.009	1.00	0.00
ATOM 522	CE2	TRP A	38	152.626	9.954	0.834	1.00	0.00
ATOM 523	CE3	TRP A	38	152.126	7.701	0.124	1.00	0.00
ATOM 524	CZ2	TRP A	38	152.817	10.374	-0.480	1.00	0.00
ATOM 525	CZ3	TRP A	38	152.317	8.119	-1.180	1.00	0.00
ATOM 526	CH2	TRP A	38	152.659	9.445	-1.472	1.00	0.00
ATOM 527	H	TRP A	38	150.254	5.050	3.669	1.00	0.00
ATOM 528	HA	TRP A	38	149.955	7.915	4.296	1.00	0.00
ATOM 529	1HB	TRP A	38	152.290	7.435	4.358	1.00	0.00
ATOM 530	2HB	TRP A	38	152.202	6.474	2.885	1.00	0.00
ATOM 531	HD1	TRP A	38	152.434	10.079	4.100	1.00	0.00
ATOM 532	HE1	TRP A	38	152.942	11.605	2.091	1.00	0.00
ATOM 533	HE3	TRP A	38	151.862	6.676	0.329	1.00	0.00
ATOM 534	HZ2	TRP A	38	153.078	11.394	-0.723	1.00	0.00
ATOM 535	HZ3	TRP A	38	152.201	7.416	-1.991	1.00	0.00
ATOM 536	HH2	TRP A	38	152.798	9.727	-2.506	1.00	0.00
ATOM 537	N	ILE A	39	148.917	8.501	2.127	1.00	0.00
ATOM 538	CA	ILE A	39	148.186	8.818	0.908	1.00	0.00
ATOM 539	C	ILE A	39	148.671	10.138	0.321	1.00	0.00
ATOM 540	O	ILE A	39	148.372	11.210	0.847	1.00	0.00
ATOM 541	CB	ILE A	39	146.670	8.909	1.166	1.00	0.00
ATOM 542	CG1	ILE A	39	146.190	7.688	1.952	1.00	0.00
ATOM 543	CG2	ILE A	39	145.914	9.031	-0.149	1.00	0.00
ATOM 544	CD1	ILE A	39	144.834	7.878	2.597	1.00	0.00
ATOM 545	H	ILE A	39	148.935	9.157	2.857	1.00	0.00

ATOM 546	HA	ILE A	39	148.365	8.027	0.193	1.00	0.00
ATOM 547	HB	ILE A	39	146.478	9.800	1.746	1.00	0.00
ATOM 548	1HG1	ILE A	39	146.124	6.842	1.286	1.00	0.00
ATOM 549	2HG1	ILE A	39	146.901	7.469	2.735	1.00	0.00
ATOM 550	1HG2	ILE A	39	146.209	9.940	-0.650	1.00	0.00
ATOM 551	2HG2	ILE A	39	144.853	9.054	0.047	1.00	0.00
ATOM 552	3HG2	ILE A	39	146.147	8.182	-0.776	1.00	0.00
ATOM 553	1HD1	ILE A	39	144.207	7.029	2.372	1.00	0.00
ATOM 554	2HD1	ILE A	39	144.375	8.777	2.211	1.00	0.00
ATOM 555	3HD1	ILE A	39	144.953	7.966	3.666	1.00	0.00
ATOM 556	N	GLY A	40	149.430	10.056	-0.768	1.00	0.00
ATOM 557	CA	GLY A	40	149.949	11.255	-1.397	1.00	0.00
ATOM 558	C	GLY A	40	150.476	11.005	-2.796	1.00	0.00
ATOM 559	O	GLY A	40	150.229	9.951	-3.382	1.00	0.00
ATOM 560	H	GLY A	40	149.641	9.176	-1.144	1.00	0.00
ATOM 561	1HA	GLY A	40	149.161	11.991	-1.449	1.00	0.00
ATOM 562	2HA	GLY A	40	150.750	11.647	-0.788	1.00	0.00
ATOM 563	N	GLN A	41	151.202	11.981	-3.330	1.00	0.00
ATOM 564	CA	GLN A	41	151.768	11.874	-4.667	1.00	0.00
ATOM 565	C	GLN A	41	153.268	12.169	-4.645	1.00	0.00
ATOM 566	O	GLN A	41	153.680	13.290	-4.342	1.00	0.00
ATOM 567	CB	GLN A	41	151.058	12.843	-5.612	1.00	0.00
ATOM 568	CG	GLN A	41	149.543	12.769	-5.531	1.00	0.00
ATOM 569	CD	GLN A	41	148.888	14.133	-5.604	1.00	0.00
ATOM 570	OE1	GLN A	41	148.913	14.900	-4.641	1.00	0.00
ATOM 571	NE2	GLN A	41	148.296	14.444	-6.750	1.00	0.00
ATOM 572	H	GLN A	41	151.360	12.796	-2.811	1.00	0.00
ATOM 573	HA	GLN A	41	151.612	10.865	-5.016	1.00	0.00
ATOM 574	1HB	GLN A	41	151.361	13.850	-5.368	1.00	0.00

ATOM 575	2HB	GLN A	41	151.356	12.623	-6.624	1.00	0.00
ATOM 576	1HG	GLN A	41	149.179	12.169	-6.352	1.00	0.00
ATOM 577	2HG	GLN A	41	149.266	12.302	-4.597	1.00	0.00
ATOM 578	1HE2	GLN A	41	148.315	13.784	-7.474	1.00	0.00
ATOM 579	2HE2	GLN A	41	147.866	15.321	-6.827	1.00	0.00
ATOM 580	N	PRO A	42	154.108	11.168	-4.962	1.00	0.00
ATOM 581	CA	PRO A	42	155.566	11.336	-4.971	1.00	0.00
ATOM 582	C	PRO A	42	156.014	12.453	-5.908	1.00	0.00
ATOM 583	O	PRO A	42	155.280	12.847	-6.814	1.00	0.00
ATOM 584	CB	PRO A	42	156.085	9.983	-5.467	1.00	0.00
ATOM 585	CG	PRO A	42	154.986	9.022	-5.171	1.00	0.00
ATOM 586	CD	PRO A	42	153.712	9.798	-5.334	1.00	0.00
ATOM 587	HA	PRO A	42	155.947	11.528	-3.978	1.00	0.00
ATOM 588	1HB	PRO A	42	156.287	10.038	-6.527	1.00	0.00
ATOM 589	2HB	PRO A	42	156.989	9.723	-4.936	1.00	0.00
ATOM 590	1HG	PRO A	42	155.017	8.199	-5.869	1.00	0.00
ATOM 591	2HG	PRO A	42	155.077	8.659	-4.157	1.00	0.00
ATOM 592	1HD	PRO A	42	153.374	9.759	-6.360	1.00	0.00
ATOM 593	2HD	PRO A	42	152.951	9.422	-4.667	1.00	0.00
ATOM 594	N	PRO A	43	157.233	12.979	-5.702	1.00	0.00
ATOM 595	CA	PRO A	43	157.777	14.056	-6.534	1.00	0.00
ATOM 596	C	PRO A	43	158.155	13.574	-7.929	1.00	0.00
ATOM 597	O	PRO A	43	159.298	13.186	-8.174	1.00	0.00
ATOM 598	CB	PRO A	43	159.025	14.499	-5.769	1.00	0.00
ATOM 599	CG	PRO A	43	159.441	13.297	-4.994	1.00	0.00
ATOM 600	CD	PRO A	43	158.174	12.565	-4.644	1.00	0.00
ATOM 601	HA	PRO A	43	157.087	14.882	-6.614	1.00	0.00
ATOM 602	1HB	PRO A	43	159.788	14.801	-6.470	1.00	0.00
ATOM 603	2HB	PRO A	43	158.777	15.322	-5.117	1.00	0.00

ATOM 604	1HG	PRO	A	43	160.079	12.671	-5.601	1.00	0.00
ATOM 605	2HG	PRO	A	43	159.957	13.601	-4.095	1.00	0.00
ATOM 606	1HD	PRO	A	43	158.335	11.498	-4.668	1.00	0.00
ATOM 607	2HD	PRO	A	43	157.817	12.873	-3.672	1.00	0.00
ATOM 608	N	GLY	A	44	157.190	13.600	-8.840	1.00	0.00
ATOM 609	CA	GLY	A	44	157.445	13.163	-10.199	1.00	0.00
ATOM 610	C	GLY	A	44	156.181	12.744	-10.922	1.00	0.00
ATOM 611	O	GLY	A	44	155.911	13.204	-12.031	1.00	0.00
ATOM 612	H	GLY	A	44	156.298	13.919	-8.589	1.00	0.00
ATOM 613	1HA	GLY	A	44	157.907	13.971	-10.745	1.00	0.00
ATOM 614	2HA	GLY	A	44	158.126	12.325	-10.175	1.00	0.00
ATOM 615	N	LEU	A	45	155.404	11.870	-10.292	1.00	0.00
ATOM 616	CA	LEU	A	45	154.160	11.392	-10.885	1.00	0.00
ATOM 617	C	LEU	A	45	152.973	11.708	-9.985	1.00	0.00
ATOM 618	O	LEU	A	45	152.855	11.166	-8.887	1.00	0.00
ATOM 619	CB	LEU	A	45	154.235	9.885	-11.138	1.00	0.00
ATOM 620	CG	LEU	A	45	154.759	9.057	-9.963	1.00	0.00
ATOM 621	CD1	LEU	A	45	154.329	7.602	-10.098	1.00	0.00
ATOM 622	CD2	LEU	A	45	156.276	9.165	-9.870	1.00	0.00
ATOM 623	H	LEU	A	45	155.669	11.540	-9.406	1.00	0.00
ATOM 624	HA	LEU	A	45	154.026	11.899	-11.829	1.00	0.00
ATOM 625	1HB	LEU	A	45	153.244	9.533	-11.385	1.00	0.00
ATOM 626	2HB	LEU	A	45	154.882	9.715	-11.985	1.00	0.00
ATOM 627	HG	LEU	A	45	154.340	9.444	-9.045	1.00	0.00
ATOM 628	1HD1	LEU	A	45	153.655	7.351	-9.292	1.00	0.00
ATOM 629	2HD1	LEU	A	45	155.198	6.963	-10.053	1.00	0.00
ATOM 630	3HD1	LEU	A	45	153.827	7.460	-11.044	1.00	0.00
ATOM 631	1HD2	LEU	A	45	156.700	8.182	-9.733	1.00	0.00
ATOM 632	2HD2	LEU	A	45	156.541	9.792	-9.032	1.00	0.00

ATOM 633	3HD2	LEU	A	45	156.661	9.600	-10.781	1.00	0.00
ATOM 634	N	ASN	A	46	152.092	12.585	-10.453	1.00	0.00
ATOM 635	CA	ASN	A	46	150.917	12.960	-9.678	1.00	0.00
ATOM 636	C	ASN	A	46	149.897	11.827	-9.676	1.00	0.00
ATOM 637	O	ASN	A	46	149.248	11.560	-10.688	1.00	0.00
ATOM 638	CB	ASN	A	46	150.287	14.231	-10.253	1.00	0.00
ATOM 639	CG	ASN	A	46	149.594	15.064	-9.194	1.00	0.00
ATOM 640	OD1	ASN	A	46	150.201	15.450	-8.195	1.00	0.00
ATOM 641	ND2	ASN	A	46	148.314	15.348	-9.407	1.00	0.00
ATOM 642	H	ASN	A	46	152.233	12.986	-11.337	1.00	0.00
ATOM 643	HA	ASN	A	46	151.232	13.150	-8.662	1.00	0.00
ATOM 644	1HB	ASN	A	46	151.059	14.833	-10.709	1.00	0.00
ATOM 645	2HB	ASN	A	46	149.560	13.957	-11.002	1.00	0.00
ATOM 646	1HD2	ASN	A	46	147.894	15.007	-10.225	1.00	0.00
ATOM 647	2HD2	ASN	A	46	147.841	15.886	-8.738	1.00	0.00
ATOM 648	N	GLU	A	47	149.764	11.164	-8.533	1.00	0.00
ATOM 649	CA	GLU	A	47	148.825	10.057	-8.394	1.00	0.00
ATOM 650	C	GLU	A	47	148.632	9.691	-6.927	1.00	0.00
ATOM 651	O	GLU	A	47	149.588	9.338	-6.237	1.00	0.00
ATOM 652	CB	GLU	A	47	149.318	8.836	-9.176	1.00	0.00
ATOM 653	CG	GLU	A	47	150.823	8.625	-9.095	1.00	0.00
ATOM 654	CD	GLU	A	47	151.334	7.670	-10.157	1.00	0.00
ATOM 655	OE1	GLU	A	47	151.504	8.106	-11.316	1.00	0.00
ATOM 656	OE2	GLU	A	47	151.564	6.487	-9.830	1.00	0.00
ATOM 657	H	GLU	A	47	150.311	11.425	-7.764	1.00	0.00
ATOM 658	HA	GLU	A	47	147.877	10.375	-8.802	1.00	0.00
ATOM 659	1HB	GLU	A	47	148.833	7.955	-8.786	1.00	0.00
ATOM 660	2HB	GLU	A	47	149.049	8.956	-10.215	1.00	0.00
ATOM 661	1HG	GLU	A	47	151.315	9.577	-9.225	1.00	0.00

ATOM 662	2HG	GLU A	47	151.067	8.224	-8.123	1.00	0.00
ATOM 663	N	VAL A	48	147.394	9.770	-6.455	1.00	0.00
ATOM 664	CA	VAL A	48	147.090	9.436	-5.070	1.00	0.00
ATOM 665	C	VAL A	48	147.386	7.966	-4.794	1.00	0.00
ATOM 666	O	VAL A	48	146.588	7.090	-5.124	1.00	0.00
ATOM 667	CB	VAL A	48	145.617	9.726	-4.729	1.00	0.00
ATOM 668	CG1	VAL A	48	145.372	9.565	-3.236	1.00	0.00
ATOM 669	CG2	VAL A	48	145.225	11.120	-5.195	1.00	0.00
ATOM 670	H	VAL A	48	146.669	10.052	-7.051	1.00	0.00
ATOM 671	HA	VAL A	48	147.715	10.046	-4.434	1.00	0.00
ATOM 672	HB	VAL A	48	144.999	9.009	-5.251	1.00	0.00
ATOM 673	1HG1	VAL A	48	144.386	9.932	-2.992	1.00	0.00
ATOM 674	2HG1	VAL A	48	146.111	10.129	-2.688	1.00	0.00
ATOM 675	3HG1	VAL A	48	145.443	8.522	-2.970	1.00	0.00
ATOM 676	1HG2	VAL A	48	144.827	11.066	-6.197	1.00	0.00
ATOM 677	2HG2	VAL A	48	146.096	11.759	-5.187	1.00	0.00
ATOM 678	3HG2	VAL A	48	144.476	11.525	-4.530	1.00	0.00
ATOM 679	N	LEU A	49	148.540	7.705	-4.191	1.00	0.00
ATOM 680	CA	LEU A	49	148.943	6.339	-3.876	1.00	0.00
ATOM 681	C	LEU A	49	148.854	6.082	-2.378	1.00	0.00
ATOM 682	O	LEU A	49	149.567	6.701	-1.587	1.00	0.00
ATOM 683	CB	LEU A	49	150.369	6.080	-4.366	1.00	0.00
ATOM 684	CG	LEU A	49	150.575	6.243	-5.874	1.00	0.00
ATOM 685	CD1	LEU A	49	152.038	6.510	-6.186	1.00	0.00
ATOM 686	CD2	LEU A	49	150.086	5.007	-6.614	1.00	0.00
ATOM 687	H	LEU A	49	149.136	8.445	-3.954	1.00	0.00
ATOM 688	HA	LEU A	49	148.269	5.669	-4.385	1.00	0.00
ATOM 689	1HB	LEU A	49	151.033	6.764	-3.857	1.00	0.00
ATOM 690	2HB	LEU A	49	150.642	5.071	-4.095	1.00	0.00

ATOM 691	HG	LEU A	49	150.000	7.090	-6.218	1.00	0.00
ATOM 692	1HD1	LEU A	49	152.291	6.063	-7.136	1.00	0.00
ATOM 693	2HD1	LEU A	49	152.657	6.081	-5.411	1.00	0.00
ATOM 694	3HD1	LEU A	49	152.208	7.576	-6.233	1.00	0.00
ATOM 695	1HD2	LEU A	49	149.062	5.156	-6.924	1.00	0.00
ATOM 696	2HD2	LEU A	49	150.143	4.150	-5.959	1.00	0.00
ATOM 697	3HD2	LEU A	49	150.704	4.840	-7.482	1.00	0.00
ATOM 698	N	ALA A	50	147.974	5.167	-1.992	1.00	0.00
ATOM 699	CA	ALA A	50	147.792	4.831	-0.587	1.00	0.00
ATOM 700	C	ALA A	50	148.688	3.666	-0.182	1.00	0.00
ATOM 701	O	ALA A	50	148.525	2.546	-0.669	1.00	0.00
ATOM 702	CB	ALA A	50	146.333	4.503	-0.306	1.00	0.00
ATOM 703	H	ALA A	50	147.433	4.707	-2.668	1.00	0.00
ATOM 704	HA	ALA A	50	148.061	5.700	-0.004	1.00	0.00
ATOM 705	1HB	ALA A	50	146.211	3.432	-0.242	1.00	0.00
ATOM 706	2HB	ALA A	50	145.718	4.888	-1.105	1.00	0.00
ATOM 707	3HB	ALA A	50	146.036	4.956	0.628	1.00	0.00
ATOM 708	N	GLY A	51	149.636	3.935	0.710	1.00	0.00
ATOM 709	CA	GLY A	51	150.544	2.898	1.164	1.00	0.00
ATOM 710	C	GLY A	51	149.868	1.892	2.075	1.00	0.00
ATOM 711	O	GLY A	51	149.409	2.241	3.164	1.00	0.00
ATOM 712	H	GLY A	51	149.719	4.845	1.063	1.00	0.00
ATOM 713	1HA	GLY A	51	150.938	2.379	0.303	1.00	0.00
ATOM 714	2HA	GLY A	51	151.361	3.359	1.699	1.00	0.00
ATOM 715	N	LEU A	52	149.805	0.641	1.630	1.00	0.00
ATOM 716	CA	LEU A	52	149.180	-0.418	2.412	1.00	0.00
ATOM 717	C	LEU A	52	150.233	-1.315	3.054	1.00	0.00
ATOM 718	O	LEU A	52	151.307	-1.530	2.492	1.00	0.00
ATOM 719	CB	LEU A	52	148.252	-1.254	1.528	1.00	0.00

ATOM 720	CG	LEU A	52	147.044	-0.503	0.965	1.00	0.00
ATOM 721	CD1	LEU A	52	146.417	-1.283	-0.179	1.00	0.00
ATOM 722	CD2	LEU A	52	146.020	-0.245	2.061	1.00	0.00
ATOM 723	H	LEU A	52	150.189	0.427	0.754	1.00	0.00
ATOM 724	HA	LEU A	52	148.597	0.047	3.193	1.00	0.00
ATOM 725	1HB	LEU A	52	148.829	-1.639	0.700	1.00	0.00
ATOM 726	2HB	LEU A	52	147.889	-2.088	2.110	1.00	0.00
ATOM 727	HG	LEU A	52	147.370	0.453	0.579	1.00	0.00
ATOM 728	1HD1	LEU A	52	145.575	-0.733	-0.572	1.00	0.00
ATOM 729	2HD1	LEU A	52	146.083	-2.245	0.181	1.00	0.00
ATOM 730	3HD1	LEU A	52	147.149	-1.426	-0.960	1.00	0.00
ATOM 731	1HD2	LEU A	52	146.499	0.255	2.889	1.00	0.00
ATOM 732	2HD2	LEU A	52	145.608	-1.185	2.397	1.00	0.00
ATOM 733	3HD2	LEU A	52	145.228	0.377	1.673	1.00	0.00
ATOM 734	N	GLU A	53	149.920	-1.837	4.235	1.00	0.00
ATOM 735	CA	GLU A	53	150.839	-2.711	4.955	1.00	0.00
ATOM 736	C	GLU A	53	150.313	-4.142	4.991	1.00	0.00
ATOM 737	O	GLU A	53	149.343	-4.440	5.687	1.00	0.00
ATOM 738	CB	GLU A	53	151.054	-2.198	6.380	1.00	0.00
ATOM 739	CG	GLU A	53	152.076	-3.001	7.168	1.00	0.00
ATOM 740	CD	GLU A	53	151.719	-3.118	8.637	1.00	0.00
ATOM 741	OE1	GLU A	53	150.550	-3.430	8.941	1.00	0.00
ATOM 742	OE2	GLU A	53	152.611	-2.896	9.484	1.00	0.00
ATOM 743	H	GLU A	53	149.049	-1.629	4.633	1.00	0.00
ATOM 744	HA	GLU A	53	151.784	-2.700	4.431	1.00	0.00
ATOM 745	1HB	GLU A	53	151.391	-1.173	6.335	1.00	0.00
ATOM 746	2HB	GLU A	53	150.113	-2.236	6.909	1.00	0.00
ATOM 747	1HG	GLU A	53	152.135	-3.995	6.748	1.00	0.00
ATOM 748	2HG	GLU A	53	153.039	-2.518	7.082	1.00	0.00

ATOM 749	N	LEU A	54	150.962	-5.024	4.237	1.00	0.00
ATOM 750	CA	LEU A	54	150.559	-6.425	4.184	1.00	0.00
ATOM 751	C	LEU A	54	150.879	-7.133	5.496	1.00	0.00
ATOM 752	O	LEU A	54	151.963	-6.967	6.054	1.00	0.00
ATOM 753	CB	LEU A	54	151.260	-7.134	3.023	1.00	0.00
ATOM 754	CG	LEU A	54	151.173	-6.415	1.676	1.00	0.00
ATOM 755	CD1	LEU A	54	152.099	-7.067	0.662	1.00	0.00
ATOM 756	CD2	LEU A	54	149.740	-6.410	1.167	1.00	0.00
ATOM 757	H	LEU A	54	151.728	-4.727	3.704	1.00	0.00
ATOM 758	HA	LEU A	54	149.492	-6.457	4.021	1.00	0.00
ATOM 759	1HB	LEU A	54	152.303	-7.253	3.279	1.00	0.00
ATOM 760	2HB	LEU A	54	150.821	-8.114	2.910	1.00	0.00
ATOM 761	HG	LEU A	54	151.487	-5.389	1.803	1.00	0.00
ATOM 762	1HD1	LEU A	54	152.425	-6.328	-0.056	1.00	0.00
ATOM 763	2HD1	LEU A	54	151.572	-7.857	0.149	1.00	0.00
ATOM 764	3HD1	LEU A	54	152.958	-7.479	1.171	1.00	0.00
ATOM 765	1HD2	LEU A	54	149.733	-6.184	0.111	1.00	0.00
ATOM 766	2HD2	LEU A	54	149.172	-5.661	1.699	1.00	0.00
ATOM 767	3HD2	LEU A	54	149.297	-7.381	1.331	1.00	0.00
ATOM 768	N	GLU A	55	149.927	-7.923	5.983	1.00	0.00
ATOM 769	CA	GLU A	55	150.107	-8.656	7.231	1.00	0.00
ATOM 770	C	GLU A	55	151.145	-9.762	7.068	1.00	0.00
ATOM 771	O	GLU A	55	151.941	-10.018	7.971	1.00	0.00
ATOM 772	CB	GLU A	55	148.777	-9.253	7.693	1.00	0.00
ATOM 773	CG	GLU A	55	147.874	-8.254	8.399	1.00	0.00
ATOM 774	CD	GLU A	55	146.405	-8.609	8.276	1.00	0.00
ATOM 775	OE1	GLU A	55	146.074	-9.809	8.379	1.00	0.00
ATOM 776	OE2	GLU A	55	145.587	-7.687	8.079	1.00	0.00
ATOM 777	H	GLU A	55	149.084	-8.014	5.493	1.00	0.00

ATOM 778	HA	GLU A	55	150.457	-7.958	7.978	1.00	0.00
ATOM 779	1HB	GLU A	55	148.249	-9.636	6.832	1.00	0.00
ATOM 780	2HB	GLU A	55	148.978	-10.067	8.373	1.00	0.00
ATOM 781	1HG	GLU A	55	148.136	-8.228	9.445	1.00	0.00
ATOM 782	2HG	GLU A	55	148.031	-7.277	7.964	1.00	0.00
ATOM 783	N	ASP A	56	151.131	-10.414	5.910	1.00	0.00
ATOM 784	CA	ASP A	56	152.071	-11.493	5.629	1.00	0.00
ATOM 785	C	ASP A	56	153.436	-10.937	5.235	1.00	0.00
ATOM 786	O	ASP A	56	153.564	-10.234	4.232	1.00	0.00
ATOM 787	CB	ASP A	56	151.531	-12.390	4.514	1.00	0.00
ATOM 788	CG	ASP A	56	150.706	-13.544	5.048	1.00	0.00
ATOM 789	OD1	ASP A	56	149.498	-13.344	5.299	1.00	0.00
ATOM 790	OD2	ASP A	56	151.266	-14.647	5.216	1.00	0.00
ATOM 791	H	ASP A	56	150.472	-10.164	5.228	1.00	0.00
ATOM 792	HA	ASP A	56	152.181	-12.079	6.529	1.00	0.00
ATOM 793	1HB	ASP A	56	150.910	-11.802	3.855	1.00	0.00
ATOM 794	2HB	ASP A	56	152.361	-12.794	3.952	1.00	0.00
ATOM 795	N	GLU A	57	154.450	-11.257	6.030	1.00	0.00
ATOM 796	CA	GLU A	57	155.806	-10.789	5.765	1.00	0.00
ATOM 797	C	GLU A	57	156.388	-11.479	4.536	1.00	0.00
ATOM 798	O	GLU A	57	156.885	-12.602	4.617	1.00	0.00
ATOM 799	CB	GLU A	57	156.703	-11.045	6.978	1.00	0.00
ATOM 800	CG	GLU A	57	156.726	-9.893	7.971	1.00	0.00
ATOM 801	CD	GLU A	57	158.025	-9.819	8.748	1.00	0.00
ATOM 802	OE1	GLU A	57	158.589	-8.710	8.857	1.00	0.00
ATOM 803	OE2	GLU A	57	158.478	-10.870	9.247	1.00	0.00
ATOM 804	H	GLU A	57	154.285	-11.820	6.814	1.00	0.00
ATOM 805	HA	GLU A	57	155.760	-9.727	5.580	1.00	0.00
ATOM 806	1HB	GLU A	57	156.352	-11.927	7.492	1.00	0.00

ATOM 807	2HB	GLU A	57	157.712	-11.216	6.636	1.00	0.00
ATOM 808	1HG	GLU A	57	156.593	-8.967	7.431	1.00	0.00
ATOM 809	2HG	GLU A	57	155.912	-10.021	8.669	1.00	0.00
ATOM 810	N	CYS A	58	156.324	-10.798	3.395	1.00	0.00
ATOM 811	CA	CYS A	58	156.845	-11.345	2.148	1.00	0.00
ATOM 812	C	CYS A	58	158.162	-10.675	1.768	1.00	0.00
ATOM 813	O	CYS A	58	158.232	-9.454	1.635	1.00	0.00
ATOM 814	CB	CYS A	58	155.824	-11.166	1.023	1.00	0.00
ATOM 815	SG	CYS A	58	155.774	-12.540	-0.153	1.00	0.00
ATOM 816	H	CYS A	58	155.917	-9.907	3.394	1.00	0.00
ATOM 817	HA	CYS A	58	157.022	-12.400	2.297	1.00	0.00
ATOM 818	1HB	CYS A	58	154.839	-11.066	1.453	1.00	0.00
ATOM 819	2HB	CYS A	58	156.063	-10.269	0.471	1.00	0.00
ATOM 820	HG	CYS A	58	154.908	-12.949	-0.091	1.00	0.00
ATOM 821	N	ALA A	59	159.202	-11.483	1.594	1.00	0.00
ATOM 822	CA	ALA A	59	160.516	-10.969	1.228	1.00	0.00
ATOM 823	C	ALA A	59	160.463	-10.227	-0.103	1.00	0.00
ATOM 824	O	ALA A	59	159.799	-10.664	-1.042	1.00	0.00
ATOM 825	CB	ALA A	59	161.527	-12.103	1.163	1.00	0.00
ATOM 826	H	ALA A	59	159.083	-12.449	1.713	1.00	0.00
ATOM 827	HA	ALA A	59	160.831	-10.282	2.000	1.00	0.00
ATOM 828	1HB	ALA A	59	161.646	-12.421	0.137	1.00	0.00
ATOM 829	2HB	ALA A	59	161.176	-12.934	1.758	1.00	0.00
ATOM 830	3HB	ALA A	59	162.477	-11.762	1.545	1.00	0.00
ATOM 831	N	GLY A	60	161.170	-9.103	-0.175	1.00	0.00
ATOM 832	CA	GLY A	60	161.191	-8.318	-1.396	1.00	0.00
ATOM 833	C	GLY A	60	160.533	-6.963	-1.226	1.00	0.00
ATOM 834	O	GLY A	60	160.888	-6.002	-1.909	1.00	0.00
ATOM 835	H	GLY A	60	161.680	-8.804	0.606	1.00	0.00

ATOM 836	1HA	GLY A	60	162.216	-8.172	-1.699	1.00	0.00
ATOM 837	2HA	GLY A	60	160.671	-8.863	-2.171	1.00	0.00
ATOM 838	N	CYS A	61	159.571	-6.885	-0.311	1.00	0.00
ATOM 839	CA	CYS A	61	158.862	-5.638	-0.052	1.00	0.00
ATOM 840	C	CYS A	61	159.720	-4.685	0.773	1.00	0.00
ATOM 841	O	CYS A	61	160.794	-5.054	1.249	1.00	0.00
ATOM 842	CB	CYS A	61	157.545	-5.916	0.675	1.00	0.00
ATOM 843	SG	CYS A	61	156.398	-6.962	-0.252	1.00	0.00
ATOM 844	H	CYS A	61	159.333	-7.686	0.202	1.00	0.00
ATOM 845	HA	CYS A	61	158.646	-5.176	-1.004	1.00	0.00
ATOM 846	1HB	CYS A	61	157.757	-6.412	1.610	1.00	0.00
ATOM 847	2HB	CYS A	61	157.047	-4.979	0.875	1.00	0.00
ATOM 848	HG	CYS A	61	156.641	-6.919	-1.180	1.00	0.00
ATOM 849	N	THR A	62	159.239	-3.456	0.939	1.00	0.00
ATOM 850	CA	THR A	62	159.963	-2.450	1.708	1.00	0.00
ATOM 851	C	THR A	62	159.381	-2.315	3.111	1.00	0.00
ATOM 852	O	THR A	62	158.425	-3.005	3.466	1.00	0.00
ATOM 853	CB	THR A	62	159.916	-1.100	0.991	1.00	0.00
ATOM 854	OG1	THR A	62	158.579	-0.739	0.691	1.00	0.00
ATOM 855	CG2	THR A	62	160.698	-1.081	-0.304	1.00	0.00
ATOM 856	H	THR A	62	158.378	-3.222	0.536	1.00	0.00
ATOM 857	HA	THR A	62	160.991	-2.770	1.786	1.00	0.00
ATOM 858	HB	THR A	62	160.333	-0.344	1.641	1.00	0.00
ATOM 859	HG1	THR A	62	158.526	0.211	0.559	1.00	0.00
ATOM 860	1HG2	THR A	62	161.753	-1.009	-0.086	1.00	0.00
ATOM 861	2HG2	THR A	62	160.394	-0.231	-0.896	1.00	0.00
ATOM 862	3HG2	THR A	62	160.506	-1.990	-0.854	1.00	0.00
ATOM 863	N	ASP A	63	159.965	-1.423	3.905	1.00	0.00
ATOM 864	CA	ASP A	63	159.504	-1.198	5.270	1.00	0.00

ATOM 865	C	ASP A	63	158.813	0.156	5.394	1.00	0.00
ATOM 866	O	ASP A	63	158.857	0.791	6.448	1.00	0.00
ATOM 867	CB	ASP A	63	160.679	-1.275	6.246	1.00	0.00
ATOM 868	CG	ASP A	63	161.788	-0.301	5.895	1.00	0.00
ATOM 869	OD1	ASP A	63	161.497	0.713	5.227	1.00	0.00
ATOM 870	OD2	ASP A	63	162.946	-0.553	6.289	1.00	0.00
ATOM 871	H	ASP A	63	160.723	-0.904	3.565	1.00	0.00
ATOM 872	HA	ASP A	63	158.795	-1.975	5.513	1.00	0.00
ATOM 873	1HB	ASP A	63	160.328	-1.048	7.242	1.00	0.00
ATOM 874	2HB	ASP A	63	161.086	-2.276	6.232	1.00	0.00
ATOM 875	N	GLY A	64	158.175	0.590	4.313	1.00	0.00
ATOM 876	CA	GLY A	64	157.484	1.866	4.322	1.00	0.00
ATOM 877	C	GLY A	64	158.202	2.922	3.504	1.00	0.00
ATOM 878	O	GLY A	64	158.319	4.072	3.928	1.00	0.00
ATOM 879	H	GLY A	64	158.174	0.041	3.502	1.00	0.00
ATOM 880	1HA	GLY A	64	156.491	1.728	3.919	1.00	0.00
ATOM 881	2HA	GLY A	64	157.400	2.211	5.342	1.00	0.00
ATOM 882	N	THR A	65	158.685	2.531	2.330	1.00	0.00
ATOM 883	CA	THR A	65	159.396	3.451	1.451	1.00	0.00
ATOM 884	C	THR A	65	158.996	3.233	-0.005	1.00	0.00
ATOM 885	O	THR A	65	159.192	2.152	-0.558	1.00	0.00
ATOM 886	CB	THR A	65	160.908	3.273	1.608	1.00	0.00
ATOM 887	OG1	THR A	65	161.280	1.926	1.381	1.00	0.00
ATOM 888	CG2	THR A	65	161.417	3.668	2.977	1.00	0.00
ATOM 889	H	THR A	65	158.560	1.600	2.047	1.00	0.00
ATOM 890	HA	THR A	65	159.129	4.457	1.738	1.00	0.00
ATOM 891	HB	THR A	65	161.410	3.892	0.877	1.00	0.00
ATOM 892	HG1	THR A	65	161.430	1.788	0.444	1.00	0.00
ATOM 893	1HG2	THR A	65	160.950	4.592	3.283	1.00	0.00

ATOM 894	2HG2	THR A	65	162.488	3.801	2.939	1.00	0.00
ATOM 895	3HG2	THR A	65	161.177	2.890	3.688	1.00	0.00
ATOM 896	N	PHE A	66	158.432	4.269	-0.619	1.00	0.00
ATOM 897	CA	PHE A	66	158.003	4.191	-2.010	1.00	0.00
ATOM 898	C	PHE A	66	158.983	4.919	-2.924	1.00	0.00
ATOM 899	O	PHE A	66	159.112	6.141	-2.864	1.00	0.00
ATOM 900	CB	PHE A	66	156.603	4.786	-2.169	1.00	0.00
ATOM 901	CG	PHE A	66	155.984	4.516	-3.511	1.00	0.00
ATOM 902	CD1	PHE A	66	155.770	3.216	-3.941	1.00	0.00
ATOM 903	CD2	PHE A	66	155.616	5.562	-4.341	1.00	0.00
ATOM 904	CE1	PHE A	66	155.201	2.966	-5.176	1.00	0.00
ATOM 905	CE2	PHE A	66	155.047	5.318	-5.577	1.00	0.00
ATOM 906	CZ	PHE A	66	154.839	4.018	-5.994	1.00	0.00
ATOM 907	H	PHE A	66	158.302	5.105	-0.125	1.00	0.00
ATOM 908	HA	PHE A	66	157.975	3.148	-2.291	1.00	0.00
ATOM 909	1HB	PHE A	66	155.954	4.366	-1.414	1.00	0.00
ATOM 910	2HB	PHE A	66	156.657	5.856	-2.035	1.00	0.00
ATOM 911	HD1	PHE A	66	156.053	2.393	-3.302	1.00	0.00
ATOM 912	HD2	PHE A	66	155.778	6.579	-4.016	1.00	0.00
ATOM 913	HE1	PHE A	66	155.040	1.948	-5.501	1.00	0.00
ATOM 914	HE2	PHE A	66	154.765	6.142	-6.214	1.00	0.00
ATOM 915	HZ	PHE A	66	154.394	3.824	-6.960	1.00	0.00
ATOM 916	N	ARG A	67	159.672	4.160	-3.769	1.00	0.00
ATOM 917	CA	ARG A	67	160.642	4.733	-4.696	1.00	0.00
ATOM 918	C	ARG A	67	161.753	5.458	-3.942	1.00	0.00
ATOM 919	O	ARG A	67	162.225	6.510	-4.373	1.00	0.00
ATOM 920	CB	ARG A	67	159.949	5.699	-5.659	1.00	0.00
ATOM 921	CG	ARG A	67	158.864	5.045	-6.499	1.00	0.00
ATOM 922	CD	ARG A	67	158.302	6.010	-7.530	1.00	0.00

ATOM 923	NE	ARG A	67	158.965	5.875	-8.825	1.00	0.00
ATOM 924	CZ	ARG A	67	158.894	4.783	-9.583	1.00	0.00
ATOM 925	NH1	ARG A	67	158.193	3.731	-9.182	1.00	0.00
ATOM 926	NH2	ARG A	67	159.527	4.744	-10.749	1.00	0.00
ATOM 927	H	ARG A	67	159.526	3.191	-3.770	1.00	0.00
ATOM 928	HA	ARG A	67	161.078	3.924	-5.262	1.00	0.00
ATOM 929	1HB	ARG A	67	159.500	6.498	-5.088	1.00	0.00
ATOM 930	2HB	ARG A	67	160.688	6.117	-6.326	1.00	0.00
ATOM 931	1HG	ARG A	67	159.283	4.192	-7.011	1.00	0.00
ATOM 932	2HG	ARG A	67	158.064	4.721	-5.849	1.00	0.00
ATOM 933	1HD	ARG A	67	157.248	5.810	-7.655	1.00	0.00
ATOM 934	2HD	ARG A	67	158.436	7.019	-7.171	1.00	0.00
ATOM 935	HE	ARG A	67	159.490	6.637	-9.146	1.00	0.00
ATOM 936	1HH1	ARG A	67	157.713	3.753	-8.305	1.00	0.00
ATOM 937	2HH1	ARG A	67	158.144	2.914	-9.756	1.00	0.00
ATOM 938	1HH2	ARG A	67	160.057	5.534	-11.057	1.00	0.00
ATOM 939	2HH2	ARG A	67	159.475	3.924	-11.318	1.00	0.00
ATOM 940	N	GLY A	68	162.165	4.888	-2.814	1.00	0.00
ATOM 941	CA	GLY A	68	163.216	5.494	-2.018	1.00	0.00
ATOM 942	C	GLY A	68	162.744	6.731	-1.280	1.00	0.00
ATOM 943	O	GLY A	68	163.533	7.634	-1.000	1.00	0.00
ATOM 944	H	GLY A	68	161.751	4.050	-2.521	1.00	0.00
ATOM 945	1HA	GLY A	68	163.569	4.771	-1.298	1.00	0.00
ATOM 946	2HA	GLY A	68	164.033	5.766	-2.669	1.00	0.00
ATOM 947	N	THR A	69	161.454	6.772	-0.962	1.00	0.00
ATOM 948	CA	THR A	69	160.878	7.907	-0.252	1.00	0.00
ATOM 949	C	THR A	69	160.006	7.437	0.908	1.00	0.00
ATOM 950	O	THR A	69	158.823	7.148	0.730	1.00	0.00
ATOM 951	CB	THR A	69	160.052	8.769	-1.208	1.00	0.00

ATOM 952	OG1	THR A	69	160.652	8.810	-2.490	1.00	0.00
ATOM 953	CG2	THR A	69	159.884	10.196	-0.734	1.00	0.00
ATOM 954	H	THR A	69	160.876	6.021	-1.213	1.00	0.00
ATOM 955	HA	THR A	69	161.691	8.500	0.141	1.00	0.00
ATOM 956	HB	THR A	69	159.068	8.335	-1.309	1.00	0.00
ATOM 957	HG1	THR A	69	161.498	9.260	-2.435	1.00	0.00
ATOM 958	1HG2	THR A	69	159.331	10.204	0.195	1.00	0.00
ATOM 959	2HG2	THR A	69	159.343	10.762	-1.479	1.00	0.00
ATOM 960	3HG2	THR A	69	160.855	10.641	-0.579	1.00	0.00
ATOM 961	N	ARG A	70	160.599	7.363	2.095	1.00	0.00
ATOM 962	CA	ARG A	70	159.876	6.928	3.284	1.00	0.00
ATOM 963	C	ARG A	70	158.715	7.867	3.589	1.00	0.00
ATOM 964	O	ARG A	70	158.835	9.085	3.454	1.00	0.00
ATOM 965	CB	ARG A	70	160.822	6.862	4.485	1.00	0.00
ATOM 966	CG	ARG A	70	160.172	6.303	5.740	1.00	0.00
ATOM 967	CD	ARG A	70	160.941	6.699	6.990	1.00	0.00
ATOM 968	NE	ARG A	70	162.372	6.430	6.859	1.00	0.00
ATOM 969	CZ	ARG A	70	163.254	6.623	7.838	1.00	0.00
ATOM 970	NH1	ARG A	70	162.857	7.084	9.017	1.00	0.00
ATOM 971	NH2	ARG A	70	164.536	6.353	7.637	1.00	0.00
ATOM 972	H	ARG A	70	161.545	7.608	2.172	1.00	0.00
ATOM 973	HA	ARG A	70	159.484	5.941	3.091	1.00	0.00
ATOM 974	1HB	ARG A	70	161.664	6.235	4.231	1.00	0.00
ATOM 975	2HB	ARG A	70	161.179	7.857	4.703	1.00	0.00
ATOM 976	1HG	ARG A	70	159.165	6.686	5.813	1.00	0.00
ATOM 977	2HG	ARG A	70	160.145	5.225	5.671	1.00	0.00
ATOM 978	1HD	ARG A	70	160.798	7.754	7.166	1.00	0.00
ATOM 979	2HD	ARG A	70	160.554	6.138	7.828	1.00	0.00
ATOM 980	HE	ARG A	70	162.692	6.088	5.999	1.00	0.00

ATOM 981	1HH1	ARG A	70	161.891	7.290	9.177	1.00	0.00
ATOM 982	2HH1	ARG A	70	163.524	7.227	9.748	1.00	0.00
ATOM 983	1HH2	ARG A	70	164.840	6.005	6.750	1.00	0.00
ATOM 984	2HH2	ARG A	70	165.199	6.497	8.370	1.00	0.00
ATOM 985	N	TYR A	71	157.589	7.295	4.002	1.00	0.00
ATOM 986	CA	TYR A	71	156.404	8.081	4.326	1.00	0.00
ATOM 987	C	TYR A	71	155.921	7.778	5.741	1.00	0.00
ATOM 988	O	TYR A	71	155.586	8.687	6.501	1.00	0.00
ATOM 989	CB	TYR A	71	155.286	7.795	3.322	1.00	0.00
ATOM 990	CG	TYR A	71	155.489	8.465	1.982	1.00	0.00
ATOM 991	CD1	TYR A	71	155.380	7.745	0.799	1.00	0.00
ATOM 992	CD2	TYR A	71	155.793	9.819	1.900	1.00	0.00
ATOM 993	CE1	TYR A	71	155.565	8.354	-0.427	1.00	0.00
ATOM 994	CE2	TYR A	71	155.980	10.435	0.677	1.00	0.00
ATOM 995	CZ	TYR A	71	155.865	9.698	-0.483	1.00	0.00
ATOM 996	OH	TYR A	71	156.051	10.308	-1.702	1.00	0.00
ATOM 997	H	TYR A	71	157.554	6.319	4.091	1.00	0.00
ATOM 998	HA	TYR A	71	156.672	9.125	4.266	1.00	0.00
ATOM 999	1HB	TYR A	71	155.226	6.730	3.154	1.00	0.00
ATOM 1000	2HB	TYR A	71	154.349	8.144	3.729	1.00	0.00
ATOM 1001	HD1	TYR A	71	155.144	6.692	0.846	1.00	0.00
ATOM 1002	HD2	TYR A	71	155.882	10.393	2.810	1.00	0.00
ATOM 1003	HE1	TYR A	71	155.475	7.777	-1.335	1.00	0.00
ATOM 1004	HE2	TYR A	71	156.215	11.488	0.635	1.00	0.00
ATOM 1005	HH	TYR A	71	156.907	10.059	-2.058	1.00	0.00
ATOM 1006	N	PHE A	72	155.889	6.496	6.088	1.00	0.00
ATOM 1007	CA	PHE A	72	155.447	6.073	7.412	1.00	0.00
ATOM 1008	C	PHE A	72	156.408	5.047	8.004	1.00	0.00
ATOM 1009	O	PHE A	72	157.303	4.553	7.320	1.00	0.00

ATOM 1010	CB	PHE A	72	154.037	5.485	7.338	1.00	0.00
ATOM 1011	CG	PHE A	72	153.868	4.464	6.249	1.00	0.00
ATOM 1012	CD1	PHE A	72	153.748	4.858	4.926	1.00	0.00
ATOM 1013	CD2	PHE A	72	153.831	3.112	6.548	1.00	0.00
ATOM 1014	CE1	PHE A	72	153.593	3.921	3.921	1.00	0.00
ATOM 1015	CE2	PHE A	72	153.677	2.171	5.548	1.00	0.00
ATOM 1016	CZ	PHE A	72	153.558	2.576	4.234	1.00	0.00
ATOM 1017	H	PHE A	72	156.168	5.817	5.438	1.00	0.00
ATOM 1018	HA	PHE A	72	155.431	6.944	8.049	1.00	0.00
ATOM 1019	1HB	PHE A	72	153.803	5.009	8.278	1.00	0.00
ATOM 1020	2HB	PHE A	72	153.331	6.283	7.159	1.00	0.00
ATOM 1021	HD1	PHE A	72	153.776	5.909	4.680	1.00	0.00
ATOM 1022	HD2	PHE A	72	153.925	2.795	7.576	1.00	0.00
ATOM 1023	HE1	PHE A	72	153.499	4.240	2.894	1.00	0.00
ATOM 1024	HE2	PHE A	72	153.649	1.120	5.795	1.00	0.00
ATOM 1025	HZ	PHE A	72	153.436	1.841	3.450	1.00	0.00
ATOM 1026	N	THR A	73	156.216	4.732	9.281	1.00	0.00
ATOM 1027	CA	THR A	73	157.064	3.765	9.966	1.00	0.00
ATOM 1028	C	THR A	73	156.309	2.466	10.227	1.00	0.00
ATOM 1029	O	THR A	73	155.430	2.409	11.086	1.00	0.00
ATOM 1030	CB	THR A	73	157.573	4.346	11.286	1.00	0.00
ATOM 1031	OG1	THR A	73	157.559	5.762	11.249	1.00	0.00
ATOM 1032	CG2	THR A	73	158.981	3.910	11.630	1.00	0.00
ATOM 1033	H	THR A	73	155.485	5.160	9.774	1.00	0.00
ATOM 1034	HA	THR A	73	157.909	3.554	9.327	1.00	0.00
ATOM 1035	HB	THR A	73	156.922	4.021	12.085	1.00	0.00
ATOM 1036	HG1	THR A	73	157.401	6.105	12.132	1.00	0.00
ATOM 1037	1HG2	THR A	73	159.622	4.056	10.773	1.00	0.00
ATOM 1038	2HG2	THR A	73	158.978	2.865	11.903	1.00	0.00

ATOM 1039	3HG2	THR	A	73	159.348	4.498	12.457	1.00	0.00
ATOM 1040	N	CYS	A	74	156.658	1.424	9.478	1.00	0.00
ATOM 1041	CA	CYS	A	74	156.013	0.125	9.628	1.00	0.00
ATOM 1042	C	CYS	A	74	157.050	-0.992	9.703	1.00	0.00
ATOM 1043	O	CYS	A	74	158.254	-0.735	9.695	1.00	0.00
ATOM 1044	CB	CYS	A	74	155.055	-0.130	8.464	1.00	0.00
ATOM 1045	SG	CYS	A	74	153.368	0.453	8.755	1.00	0.00
ATOM 1046	H	CYS	A	74	157.366	1.531	8.810	1.00	0.00
ATOM 1047	HA	CYS	A	74	155.450	0.139	10.550	1.00	0.00
ATOM 1048	1HB	CYS	A	74	155.428	0.373	7.584	1.00	0.00
ATOM 1049	2HB	CYS	A	74	155.008	-1.192	8.272	1.00	0.00
ATOM 1050	HG	CYS	A	74	153.059	0.879	7.951	1.00	0.00
ATOM 1051	N	ALA	A	75	156.573	-2.230	9.775	1.00	0.00
ATOM 1052	CA	ALA	A	75	157.459	-3.386	9.850	1.00	0.00
ATOM 1053	C	ALA	A	75	158.186	-3.607	8.528	1.00	0.00
ATOM 1054	O	ALA	A	75	157.865	-2.980	7.520	1.00	0.00
ATOM 1055	CB	ALA	A	75	156.671	-4.629	10.237	1.00	0.00
ATOM 1056	H	ALA	A	75	155.604	-2.370	9.777	1.00	0.00
ATOM 1057	HA	ALA	A	75	158.189	-3.196	10.623	1.00	0.00
ATOM 1058	1HB	ALA	A	75	155.655	-4.535	9.885	1.00	0.00
ATOM 1059	2HB	ALA	A	75	156.672	-4.736	11.311	1.00	0.00
ATOM 1060	3HB	ALA	A	75	157.129	-5.498	9.787	1.00	0.00
ATOM 1061	N	LEU	A	76	159.167	-4.503	8.542	1.00	0.00
ATOM 1062	CA	LEU	A	76	159.941	-4.808	7.343	1.00	0.00
ATOM 1063	C	LEU	A	76	159.236	-5.858	6.492	1.00	0.00
ATOM 1064	O	LEU	A	76	158.624	-6.787	7.019	1.00	0.00
ATOM 1065	CB	LEU	A	76	161.340	-5.296	7.724	1.00	0.00
ATOM 1066	CG	LEU	A	76	162.346	-4.192	8.050	1.00	0.00
ATOM 1067	CD1	LEU	A	76	163.333	-4.663	9.106	1.00	0.00

ATOM 1068	CD2	LEU A	76	163.078	-3.752	6.792	1.00	0.00
ATOM 1069	H	LEU A	76	159.377	-4.970	9.377	1.00	0.00
ATOM 1070	HA	LEU A	76	160.032	-3.898	6.768	1.00	0.00
ATOM 1071	1HB	LEU A	76	161.250	-5.940	8.588	1.00	0.00
ATOM 1072	2HB	LEU A	76	161.731	-5.878	6.903	1.00	0.00
ATOM 1073	HG	LEU A	76	161.816	-3.337	8.447	1.00	0.00
ATOM 1074	1HD1	LEU A	76	163.489	-5.726	9.004	1.00	0.00
ATOM 1075	2HD1	LEU A	76	162.938	-4.450	10.089	1.00	0.00
ATOM 1076	3HD1	LEU A	76	164.273	-4.147	8.976	1.00	0.00
ATOM 1077	1HD2	LEU A	76	163.303	-2.697	6.855	1.00	0.00
ATOM 1078	2HD2	LEU A	76	162.455	-3.935	5.930	1.00	0.00
ATOM 1079	3HD2	LEU A	76	163.998	-4.310	6.696	1.00	0.00
ATOM 1080	N	LYS A	77	159.327	-5.706	5.175	1.00	0.00
ATOM 1081	CA	LYS A	77	158.698	-6.642	4.250	1.00	0.00
ATOM 1082	C	LYS A	77	157.182	-6.642	4.423	1.00	0.00
ATOM 1083	O	LYS A	77	156.538	-7.688	4.339	1.00	0.00
ATOM 1084	CB	LYS A	77	159.248	-8.053	4.466	1.00	0.00
ATOM 1085	CG	LYS A	77	160.765	-8.109	4.551	1.00	0.00
ATOM 1086	CD	LYS A	77	161.413	-7.639	3.259	1.00	0.00
ATOM 1087	CE	LYS A	77	162.826	-7.132	3.496	1.00	0.00
ATOM 1088	NZ	LYS A	77	162.834	-5.847	4.248	1.00	0.00
ATOM 1089	H	LYS A	77	159.830	-4.943	4.816	1.00	0.00
ATOM 1090	HA	LYS A	77	158.934	-6.323	3.246	1.00	0.00
ATOM 1091	1HB	LYS A	77	158.843	-8.448	5.386	1.00	0.00
ATOM 1092	2HB	LYS A	77	158.932	-8.680	3.646	1.00	0.00
ATOM 1093	1HG	LYS A	77	161.094	-7.472	5.358	1.00	0.00
ATOM 1094	2HG	LYS A	77	161.068	-9.127	4.748	1.00	0.00
ATOM 1095	1HD	LYS A	77	161.452	-8.467	2.566	1.00	0.00
ATOM 1096	2HD	LYS A	77	160.818	-6.842	2.838	1.00	0.00

ATOM 1097	1HE	LYS A	77	163.371	-7.872	4.061	1.00	0.00
ATOM 1098	2HE	LYS A	77	163.307	-6.984	2.540	1.00	0.00
ATOM 1099	1HZ	LYS A	77	161.959	-5.750	4.801	1.00	0.00
ATOM 1100	2HZ	LYS A	77	162.903	-5.046	3.588	1.00	0.00
ATOM 1101	3HZ	LYS A	77	163.648	-5.817	4.897	1.00	0.00
ATOM 1102	N	LYS A	78	156.620	-5.463	4.664	1.00	0.00
ATOM 1103	CA	LYS A	78	155.179	-5.326	4.848	1.00	0.00
ATOM 1104	C	LYS A	78	154.704	-3.943	4.414	1.00	0.00
ATOM 1105	O	LYS A	78	153.844	-3.341	5.056	1.00	0.00
ATOM 1106	CB	LYS A	78	154.805	-5.573	6.310	1.00	0.00
ATOM 1107	CG	LYS A	78	155.324	-6.893	6.858	1.00	0.00
ATOM 1108	CD	LYS A	78	154.929	-7.085	8.313	1.00	0.00
ATOM 1109	CE	LYS A	78	153.688	-7.957	8.445	1.00	0.00
ATOM 1110	NZ	LYS A	78	152.655	-7.323	9.310	1.00	0.00
ATOM 1111	H	LYS A	78	157.186	-4.665	4.720	1.00	0.00
ATOM 1112	HA	LYS A	78	154.695	-6.070	4.232	1.00	0.00
ATOM 1113	1HB	LYS A	78	155.211	-4.774	6.913	1.00	0.00
ATOM 1114	2HB	LYS A	78	153.729	-5.569	6.400	1.00	0.00
ATOM 1115	1HG	LYS A	78	154.912	-7.701	6.272	1.00	0.00
ATOM 1116	2HG	LYS A	78	156.401	-6.904	6.782	1.00	0.00
ATOM 1117	1HD	LYS A	78	155.745	-7.558	8.838	1.00	0.00
ATOM 1118	2HD	LYS A	78	154.728	-6.119	8.752	1.00	0.00
ATOM 1119	1HE	LYS A	78	153.272	-8.121	7.463	1.00	0.00
ATOM 1120	2HE	LYS A	78	153.975	-8.905	8.877	1.00	0.00
ATOM 1121	1HZ	LYS A	78	153.069	-7.058	10.226	1.00	0.00
ATOM 1122	2HZ	LYS A	78	151.870	-7.986	9.474	1.00	0.00
ATOM 1123	3HZ	LYS A	78	152.279	-6.468	8.850	1.00	0.00
ATOM 1124	N	ALA A	79	155.270	-3.445	3.320	1.00	0.00
ATOM 1125	CA	ALA A	79	154.904	-2.132	2.800	1.00	0.00

ATOM 1126	C	ALA A	79	154.645	-2.189	1.298	1.00	0.00
ATOM 1127	O	ALA A	79	155.565	-2.390	0.506	1.00	0.00
ATOM 1128	CB	ALA A	79	155.996	-1.120	3.111	1.00	0.00
ATOM 1129	H	ALA A	79	155.950	-3.972	2.850	1.00	0.00
ATOM 1130	HA	ALA A	79	153.999	-1.816	3.300	1.00	0.00
ATOM 1131	1HB	ALA A	79	156.440	-1.352	4.068	1.00	0.00
ATOM 1132	2HB	ALA A	79	155.568	-0.129	3.145	1.00	0.00
ATOM 1133	3HB	ALA A	79	156.752	-1.159	2.342	1.00	0.00
ATOM 1134	N	LEU A	80	153.385	-2.009	0.914	1.00	0.00
ATOM 1135	CA	LEU A	80	153.003	-2.039	-0.493	1.00	0.00
ATOM 1136	C	LEU A	80	152.162	-0.819	-0.854	1.00	0.00
ATOM 1137	O	LEU A	80	151.115	-0.574	-0.254	1.00	0.00
ATOM 1138	CB	LEU A	80	152.226	-3.319	-0.804	1.00	0.00
ATOM 1139	CG	LEU A	80	151.701	-3.427	-2.237	1.00	0.00
ATOM 1140	CD1	LEU A	80	152.848	-3.637	-3.212	1.00	0.00
ATOM 1141	CD2	LEU A	80	150.689	-4.557	-2.349	1.00	0.00
ATOM 1142	H	LEU A	80	152.695	-1.853	1.592	1.00	0.00
ATOM 1143	HA	LEU A	80	153.908	-2.025	-1.082	1.00	0.00
ATOM 1144	1HB	LEU A	80	152.874	-4.163	-0.616	1.00	0.00
ATOM 1145	2HB	LEU A	80	151.384	-3.378	-0.131	1.00	0.00
ATOM 1146	HG	LEU A	80	151.204	-2.504	-2.500	1.00	0.00
ATOM 1147	1HD1	LEU A	80	153.181	-4.664	-3.160	1.00	0.00
ATOM 1148	2HD1	LEU A	80	153.665	-2.980	-2.954	1.00	0.00
ATOM 1149	3HD1	LEU A	80	152.513	-3.419	-4.216	1.00	0.00
ATOM 1150	1HD2	LEU A	80	149.784	-4.284	-1.827	1.00	0.00
ATOM 1151	2HD2	LEU A	80	151.100	-5.454	-1.910	1.00	0.00
ATOM 1152	3HD2	LEU A	80	150.464	-4.736	-3.390	1.00	0.00
ATOM 1153	N	PHE A	81	152.628	-0.055	-1.837	1.00	0.00
ATOM 1154	CA	PHE A	81	151.917	1.141	-2.278	1.00	0.00

ATOM 1155	C	PHE A	81	151.046	0.840	-3.493	1.00	0.00
ATOM 1156	O	PHE A	81	151.391	0.000	-4.323	1.00	0.00
ATOM 1157	CB	PHE A	81	152.911	2.255	-2.612	1.00	0.00
ATOM 1158	CG	PHE A	81	153.620	2.808	-1.408	1.00	0.00
ATOM 1159	CD1	PHE A	81	154.678	2.121	-0.835	1.00	0.00
ATOM 1160	CD2	PHE A	81	153.227	4.014	-0.849	1.00	0.00
ATOM 1161	CE1	PHE A	81	155.333	2.628	0.272	1.00	0.00
ATOM 1162	CE2	PHE A	81	153.877	4.525	0.257	1.00	0.00
ATOM 1163	CZ	PHE A	81	154.931	3.831	0.819	1.00	0.00
ATOM 1164	H	PHE A	81	153.468	-0.301	-2.277	1.00	0.00
ATOM 1165	HA	PHE A	81	151.284	1.467	-1.467	1.00	0.00
ATOM 1166	1HB	PHE A	81	153.659	1.870	-3.289	1.00	0.00
ATOM 1167	2HB	PHE A	81	152.383	3.067	-3.091	1.00	0.00
ATOM 1168	HD1	PHE A	81	154.993	1.182	-1.263	1.00	0.00
ATOM 1169	HD2	PHE A	81	152.403	4.557	-1.289	1.00	0.00
ATOM 1170	HE1	PHE A	81	156.156	2.083	0.709	1.00	0.00
ATOM 1171	HE2	PHE A	81	153.562	5.466	0.683	1.00	0.00
ATOM 1172	HZ	PHE A	81	155.441	4.229	1.684	1.00	0.00
ATOM 1173	N	VAL A	82	149.916	1.532	-3.589	1.00	0.00
ATOM 1174	CA	VAL A	82	148.995	1.338	-4.703	1.00	0.00
ATOM 1175	C	VAL A	82	148.135	2.578	-4.926	1.00	0.00
ATOM 1176	O	VAL A	82	148.064	3.458	-4.069	1.00	0.00
ATOM 1177	CB	VAL A	82	148.075	0.126	-4.469	1.00	0.00
ATOM 1178	CG1	VAL A	82	148.849	-1.173	-4.634	1.00	0.00
ATOM 1179	CG2	VAL A	82	147.433	0.201	-3.092	1.00	0.00
ATOM 1180	H	VAL A	82	149.695	2.187	-2.895	1.00	0.00
ATOM 1181	HA	VAL A	82	149.581	1.153	-5.592	1.00	0.00
ATOM 1182	HB	VAL A	82	147.290	0.146	-5.210	1.00	0.00
ATOM 1183	1HG1	VAL A	82	148.168	-2.008	-4.578	1.00	0.00

ATOM 1184	2HG1	VAL A	82	149.586	-1.256	-3.849	1.00	0.00
ATOM 1185	3HG1	VAL A	82	149.345	-1.176	-5.594	1.00	0.00
ATOM 1186	1HG2	VAL A	82	147.004	-0.759	-2.842	1.00	0.00
ATOM 1187	2HG2	VAL A	82	146.658	0.951	-3.096	1.00	0.00
ATOM 1188	3HG2	VAL A	82	148.183	0.461	-2.359	1.00	0.00
ATOM 1189	N	LYS A	83	147.485	2.641	-6.083	1.00	0.00
ATOM 1190	CA	LYS A	83	146.629	3.772	-6.419	1.00	0.00
ATOM 1191	C	LYS A	83	145.383	3.794	-5.543	1.00	0.00
ATOM 1192	O	LYS A	83	144.618	2.829	-5.507	1.00	0.00
ATOM 1193	CB	LYS A	83	146.229	3.716	-7.894	1.00	0.00
ATOM 1194	CG	LYS A	83	147.387	3.960	-8.849	1.00	0.00
ATOM 1195	CD	LYS A	83	146.976	3.731	-10.293	1.00	0.00
ATOM 1196	CE	LYS A	83	147.609	4.754	-11.223	1.00	0.00
ATOM 1197	NZ	LYS A	83	148.043	4.144	-12.510	1.00	0.00
ATOM 1198	H	LYS A	83	147.582	1.908	-6.726	1.00	0.00
ATOM 1199	HA	LYS A	83	147.192	4.677	-6.243	1.00	0.00
ATOM 1200	1HB	LYS A	83	145.816	2.741	-8.106	1.00	0.00
ATOM 1201	2HB	LYS A	83	145.474	4.465	-8.079	1.00	0.00
ATOM 1202	1HG	LYS A	83	147.723	4.980	-8.738	1.00	0.00
ATOM 1203	2HG	LYS A	83	148.193	3.285	-8.600	1.00	0.00
ATOM 1204	1HD	LYS A	83	147.291	2.743	-10.595	1.00	0.00
ATOM 1205	2HD	LYS A	83	145.901	3.806	-10.369	1.00	0.00
ATOM 1206	1HE	LYS A	83	146.887	5.530	-11.428	1.00	0.00
ATOM 1207	2HE	LYS A	83	148.468	5.185	-10.730	1.00	0.00
ATOM 1208	1HZ	LYS A	83	147.884	4.810	-13.292	1.00	0.00
ATOM 1209	2HZ	LYS A	83	147.502	3.275	-12.694	1.00	0.00
ATOM 1210	3HZ	LYS A	83	149.055	3.907	-12.470	1.00	0.00
ATOM 1211	N	LEU A	84	145.185	4.902	-4.837	1.00	0.00
ATOM 1212	CA	LEU A	84	144.032	5.055	-3.958	1.00	0.00

ATOM 1213	C	LEU A	84	142.731	4.965	-4.749	1.00	0.00
ATOM 1214	O	LEU A	84	141.738	4.418	-4.270	1.00	0.00
ATOM 1215	CB	LEU A	84	144.106	6.394	-3.222	1.00	0.00
ATOM 1216	CG	LEU A	84	142.898	6.721	-2.344	1.00	0.00
ATOM 1217	CD1	LEU A	84	142.905	5.865	-1.087	1.00	0.00
ATOM 1218	CD2	LEU A	84	142.884	8.199	-1.986	1.00	0.00
ATOM 1219	H	LEU A	84	145.831	5.635	-4.909	1.00	0.00
ATOM 1220	HA	LEU A	84	144.056	4.255	-3.236	1.00	0.00
ATOM 1221	1HB	LEU A	84	144.988	6.390	-2.599	1.00	0.00
ATOM 1222	2HB	LEU A	84	144.212	7.178	-3.958	1.00	0.00
ATOM 1223	HG	LEU A	84	141.993	6.500	-2.892	1.00	0.00
ATOM 1224	1HD1	LEU A	84	142.442	4.913	-1.296	1.00	0.00
ATOM 1225	2HD1	LEU A	84	142.357	6.370	-0.305	1.00	0.00
ATOM 1226	3HD1	LEU A	84	143.925	5.706	-0.766	1.00	0.00
ATOM 1227	1HD2	LEU A	84	143.845	8.481	-1.581	1.00	0.00
ATOM 1228	2HD2	LEU A	84	142.115	8.384	-1.249	1.00	0.00
ATOM 1229	3HD2	LEU A	84	142.682	8.783	-2.872	1.00	0.00
ATOM 1230	N	LYS A	85	142.744	5.505	-5.963	1.00	0.00
ATOM 1231	CA	LYS A	85	141.565	5.484	-6.822	1.00	0.00
ATOM 1232	C	LYS A	85	141.184	4.054	-7.191	1.00	0.00
ATOM 1233	O	LYS A	85	140.025	3.767	-7.489	1.00	0.00
ATOM 1234	CB	LYS A	85	141.818	6.301	-8.091	1.00	0.00
ATOM 1235	CG	LYS A	85	143.122	5.950	-8.790	1.00	0.00
ATOM 1236	CD	LYS A	85	144.216	6.955	-8.467	1.00	0.00
ATOM 1237	CE	LYS A	85	145.058	7.276	-9.693	1.00	0.00
ATOM 1238	NZ	LYS A	85	144.401	8.286	-10.568	1.00	0.00
ATOM 1239	H	LYS A	85	143.566	5.926	-6.291	1.00	0.00
ATOM 1240	HA	LYS A	85	140.750	5.931	-6.274	1.00	0.00
ATOM 1241	1HB	LYS A	85	141.006	6.129	-8.783	1.00	0.00

ATOM 1242	2HB	LYS A	85	141.844	7.349	-7.832	1.00	0.00
ATOM 1243	1HG	LYS A	85	143.441	4.971	-8.468	1.00	0.00
ATOM 1244	2HG	LYS A	85	142.956	5.943	-9.858	1.00	0.00
ATOM 1245	1HD	LYS A	85	143.762	7.866	-8.107	1.00	0.00
ATOM 1246	2HD	LYS A	85	144.856	6.543	-7.701	1.00	0.00
ATOM 1247	1HE	LYS A	85	146.012	7.662	-9.366	1.00	0.00
ATOM 1248	2HE	LYS A	85	145.211	6.367	-10.256	1.00	0.00
ATOM 1249	1HZ	LYS A	85	143.439	7.976	-10.812	1.00	0.00
ATOM 1250	2HZ	LYS A	85	144.947	8.408	-11.445	1.00	0.00
ATOM 1251	3HZ	LYS A	85	144.347	9.202	-10.078	1.00	0.00
ATOM 1252	N	SER A	86	142.166	3.157	-7.170	1.00	0.00
ATOM 1253	CA	SER A	86	141.931	1.758	-7.502	1.00	0.00
ATOM 1254	C	SER A	86	141.941	0.892	-6.246	1.00	0.00
ATOM 1255	O	SER A	86	142.372	-0.260	-6.278	1.00	0.00
ATOM 1256	CB	SER A	86	142.990	1.260	-8.487	1.00	0.00
ATOM 1257	OG	SER A	86	143.426	2.305	-9.340	1.00	0.00
ATOM 1258	H	SER A	86	143.072	3.444	-6.925	1.00	0.00
ATOM 1259	HA	SER A	86	140.959	1.686	-7.966	1.00	0.00
ATOM 1260	1HB	SER A	86	143.840	0.883	-7.938	1.00	0.00
ATOM 1261	2HB	SER A	86	142.572	0.469	-9.092	1.00	0.00
ATOM 1262	HG	SER A	86	144.097	1.971	-9.940	1.00	0.00
ATOM 1263	N	CYS A	87	141.463	1.457	-5.142	1.00	0.00
ATOM 1264	CA	CYS A	87	141.416	0.736	-3.874	1.00	0.00
ATOM 1265	C	CYS A	87	139.976	0.507	-3.430	1.00	0.00
ATOM 1266	O	CYS A	87	139.114	1.366	-3.614	1.00	0.00
ATOM 1267	CB	CYS A	87	142.176	1.512	-2.796	1.00	0.00
ATOM 1268	SG	CYS A	87	143.976	1.402	-2.937	1.00	0.00
ATOM 1269	H	CYS A	87	141.134	2.378	-5.180	1.00	0.00
ATOM 1270	HA	CYS A	87	141.893	-0.221	-4.019	1.00	0.00

ATOM 1271	1HB	CYS A	87	141.907	2.556	-2.857	1.00	0.00
ATOM 1272	2HB	CYS A	87	141.898	1.130	-1.825	1.00	0.00
ATOM 1273	HG	CYS A	87	144.247	0.545	-2.597	1.00	0.00
ATOM 1274	N	ARG A	88	139.723	-0.658	-2.843	1.00	0.00
ATOM 1275	CA	ARG A	88	138.386	-1.003	-2.371	1.00	0.00
ATOM 1276	C	ARG A	88	138.324	-0.963	-0.845	1.00	0.00
ATOM 1277	O	ARG A	88	139.294	-1.303	-0.169	1.00	0.00
ATOM 1278	CB	ARG A	88	137.987	-2.392	-2.876	1.00	0.00
ATOM 1279	CG	ARG A	88	137.161	-2.359	-4.153	1.00	0.00
ATOM 1280	CD	ARG A	88	135.687	-2.609	-3.873	1.00	0.00
ATOM 1281	NE	ARG A	88	134.830	-1.636	-4.546	1.00	0.00
ATOM 1282	CZ	ARG A	88	134.636	-1.603	-5.863	1.00	0.00
ATOM 1283	NH1	ARG A	88	135.235	-2.487	-6.651	1.00	0.00
ATOM 1284	NH2	ARG A	88	133.840	-0.685	-6.393	1.00	0.00
ATOM 1285	H	ARG A	88	140.451	-1.302	-2.725	1.00	0.00
ATOM 1286	HA	ARG A	88	137.697	-0.273	-2.768	1.00	0.00
ATOM 1287	1HB	ARG A	88	138.883	-2.964	-3.067	1.00	0.00
ATOM 1288	2HB	ARG A	88	137.409	-2.889	-2.111	1.00	0.00
ATOM 1289	1HG	ARG A	88	137.270	-1.390	-4.616	1.00	0.00
ATOM 1290	2HG	ARG A	88	137.525	-3.124	-4.824	1.00	0.00
ATOM 1291	1HD	ARG A	88	135.431	-3.599	-4.220	1.00	0.00
ATOM 1292	2HD	ARG A	88	135.519	-2.547	-2.809	1.00	0.00
ATOM 1293	HE	ARG A	88	134.375	-0.971	-3.987	1.00	0.00
ATOM 1294	1HH1	ARG A	88	135.837	-3.182	-6.258	1.00	0.00
ATOM 1295	2HH1	ARG A	88	135.086	-2.458	-7.639	1.00	0.00
ATOM 1296	1HH2	ARG A	88	133.385	-0.017	-5.803	1.00	0.00
ATOM 1297	2HH2	ARG A	88	133.693	-0.661	-7.382	1.00	0.00
ATOM 1298	N	PRO A	89	137.177	-0.547	-0.281	1.00	0.00
ATOM 1299	CA	PRO A	89	136.999	-0.468	1.169	1.00	0.00

ATOM 1300	C	PRO A	89	136.896	-1.846	1.815	1.00	0.00
ATOM 1301	O	PRO A	89	135.910	-2.558	1.627	1.00	0.00
ATOM 1302	CB	PRO A	89	135.687	0.298	1.331	1.00	0.00
ATOM 1303	CG	PRO A	89	134.940	0.078	0.064	1.00	0.00
ATOM 1304	CD	PRO A	89	135.968	-0.126	-1.013	1.00	0.00
ATOM 1305	HA	PRO A	89	137.802	0.085	1.634	1.00	0.00
ATOM 1306	1HB	PRO A	89	135.144	-0.098	2.172	1.00	0.00
ATOM 1307	2HB	PRO A	89	135.894	1.346	1.490	1.00	0.00
ATOM 1308	1HG	PRO A	89	134.317	-0.798	0.154	1.00	0.00
ATOM 1309	2HG	PRO A	89	134.335	0.946	-0.159	1.00	0.00
ATOM 1310	1HD	PRO A	89	135.645	-0.899	-1.687	1.00	0.00
ATOM 1311	2HD	PRO A	89	136.144	0.795	-1.548	1.00	0.00
ATOM 1312	N	ASP A	90	137.923	-2.215	2.574	1.00	0.00
ATOM 1313	CA	ASP A	90	137.949	-3.506	3.249	1.00	0.00
ATOM 1314	C	ASP A	90	136.957	-3.538	4.406	1.00	0.00
ATOM 1315	O	ASP A	90	136.914	-2.621	5.226	1.00	0.00
ATOM 1316	CB	ASP A	90	139.359	-3.807	3.763	1.00	0.00
ATOM 1317	CG	ASP A	90	139.628	-5.294	3.883	1.00	0.00
ATOM 1318	OD1	ASP A	90	140.606	-5.667	4.563	1.00	0.00
ATOM 1319	OD2	ASP A	90	138.859	-6.086	3.298	1.00	0.00
ATOM 1320	H	ASP A	90	138.680	-1.602	2.684	1.00	0.00
ATOM 1321	HA	ASP A	90	137.671	-4.262	2.530	1.00	0.00
ATOM 1322	1HB	ASP A	90	140.082	-3.384	3.081	1.00	0.00
ATOM 1323	2HB	ASP A	90	139.484	-3.357	4.737	1.00	0.00
ATOM 1324	N	SER A	91	136.160	-4.600	4.465	1.00	0.00
ATOM 1325	CA	SER A	91	135.168	-4.753	5.523	1.00	0.00
ATOM 1326	C	SER A	91	135.540	-5.899	6.458	1.00	0.00
ATOM 1327	O	SER A	91	134.669	-6.551	7.033	1.00	0.00
ATOM 1328	CB	SER A	91	133.784	-5.001	4.920	1.00	0.00

ATOM 1329	OG	SER A	91	132.762	-4.490	5.758	1.00	0.00
ATOM 1330	H	SER A	91	136.242	-5.298	3.783	1.00	0.00
ATOM 1331	HA	SER A	91	135.144	-3.834	6.090	1.00	0.00
ATOM 1332	1HB	SER A	91	133.720	-4.513	3.958	1.00	0.00
ATOM 1333	2HB	SER A	91	133.634	-6.063	4.796	1.00	0.00
ATOM 1334	HG	SER A	91	132.352	-5.213	6.239	1.00	0.00
ATOM 1335	N	ARG A	92	136.839	-6.140	6.603	1.00	0.00
ATOM 1336	CA	ARG A	92	137.327	-7.208	7.467	1.00	0.00
ATOM 1337	C	ARG A	92	136.932	-6.957	8.918	1.00	0.00
ATOM 1338	O	ARG A	92	136.465	-7.862	9.610	1.00	0.00
ATOM 1339	CB	ARG A	92	138.848	-7.331	7.353	1.00	0.00
ATOM 1340	CG	ARG A	92	139.304	-8.143	6.151	1.00	0.00
ATOM 1341	CD	ARG A	92	140.560	-8.939	6.463	1.00	0.00
ATOM 1342	NE	ARG A	92	140.258	-10.191	7.152	1.00	0.00
ATOM 1343	CZ	ARG A	92	141.185	-10.991	7.674	1.00	0.00
ATOM 1344	NH1	ARG A	92	142.471	-10.675	7.587	1.00	0.00
ATOM 1345	NH2	ARG A	92	140.824	-12.112	8.285	1.00	0.00
ATOM 1346	H	ARG A	92	137.486	-5.586	6.117	1.00	0.00
ATOM 1347	HA	ARG A	92	136.874	-8.132	7.138	1.00	0.00
ATOM 1348	1HB	ARG A	92	139.272	-6.341	7.273	1.00	0.00
ATOM 1349	2HB	ARG A	92	139.226	-7.805	8.246	1.00	0.00
ATOM 1350	1HG	ARG A	92	138.517	-8.827	5.871	1.00	0.00
ATOM 1351	2HG	ARG A	92	139.508	-7.469	5.331	1.00	0.00
ATOM 1352	1HD	ARG A	92	141.067	-9.163	5.536	1.00	0.00
ATOM 1353	2HD	ARG A	92	141.205	-8.340	7.089	1.00	0.00
ATOM 1354	HE	ARG A	92	139.316	-10.448	7.230	1.00	0.00
ATOM 1355	1HH1	ARG A	92	142.750	-9.832	7.128	1.00	0.00
ATOM 1356	2HH1	ARG A	92	143.162	-11.281	7.981	1.00	0.00
ATOM 1357	1HH2	ARG A	92	139.856	-12.355	8.354	1.00	0.00

ATOM 1358	2HH2	ARG A	92	141.520	-12.714	8.678	1.00	0.00
ATOM 1359	N	PHE A	93	137.123	-5.724	9.374	1.00	0.00
ATOM 1360	CA	PHE A	93	136.787	-5.354	10.744	1.00	0.00
ATOM 1361	C	PHE A	93	135.505	-4.527	10.791	1.00	0.00
ATOM 1362	O	PHE A	93	135.283	-3.763	11.731	1.00	0.00
ATOM 1363	CB	PHE A	93	137.936	-4.569	11.379	1.00	0.00
ATOM 1364	CG	PHE A	93	139.158	-5.402	11.646	1.00	0.00
ATOM 1365	CD1	PHE A	93	139.645	-5.547	12.934	1.00	0.00
ATOM 1366	CD2	PHE A	93	139.819	-6.038	10.607	1.00	0.00
ATOM 1367	CE1	PHE A	93	140.769	-6.312	13.183	1.00	0.00
ATOM 1368	CE2	PHE A	93	140.943	-6.805	10.849	1.00	0.00
ATOM 1369	CZ	PHE A	93	141.418	-6.941	12.139	1.00	0.00
ATOM 1370	H	PHE A	93	137.499	-5.046	8.774	1.00	0.00
ATOM 1371	HA	PHE A	93	136.634	-6.265	11.304	1.00	0.00
ATOM 1372	1HB	PHE A	93	138.221	-3.765	10.717	1.00	0.00
ATOM 1373	2HB	PHE A	93	137.604	-4.154	12.319	1.00	0.00
ATOM 1374	HD1	PHE A	93	139.138	-5.056	13.751	1.00	0.00
ATOM 1375	HD2	PHE A	93	139.448	-5.932	9.599	1.00	0.00
ATOM 1376	HE1	PHE A	93	141.139	-6.417	14.193	1.00	0.00
ATOM 1377	HE2	PHE A	93	141.449	-7.297	10.032	1.00	0.00
ATOM 1378	HZ	PHE A	93	142.297	-7.539	12.332	1.00	0.00
ATOM 1379	N	ALA A	94	134.664	-4.683	9.773	1.00	0.00
ATOM 1380	CA	ALA A	94	133.406	-3.949	9.703	1.00	0.00
ATOM 1381	C	ALA A	94	132.231	-4.835	10.103	1.00	0.00
ATOM 1382	O	ALA A	94	132.011	-5.894	9.515	1.00	0.00
ATOM 1383	CB	ALA A	94	133.200	-3.391	8.302	1.00	0.00
ATOM 1384	H	ALA A	94	134.893	-5.307	9.052	1.00	0.00
ATOM 1385	HA	ALA A	94	133.468	-3.118	10.391	1.00	0.00
ATOM 1386	1HB	ALA A	94	133.860	-3.896	7.613	1.00	0.00

ATOM 1387	2HB	ALA A	94	133.420	-2.333	8.301	1.00	0.00
ATOM 1388	3HB	ALA A	94	132.175	-3.545	7.999	1.00	0.00
ATOM 1389	N	SER A	95	131.480	-4.395	11.106	1.00	0.00
ATOM 1390	CA	SER A	95	130.327	-5.148	11.585	1.00	0.00
ATOM 1391	C	SER A	95	129.146	-4.997	10.631	1.00	0.00
ATOM 1392	O	SER A	95	129.018	-3.986	9.941	1.00	0.00
ATOM 1393	CB	SER A	95	129.930	-4.679	12.986	1.00	0.00
ATOM 1394	OG	SER A	95	130.871	-5.109	13.953	1.00	0.00
ATOM 1395	H	SER A	95	131.706	-3.544	11.536	1.00	0.00
ATOM 1396	HA	SER A	95	130.607	-6.191	11.629	1.00	0.00
ATOM 1397	1HB	SER A	95	129.883	-3.600	13.002	1.00	0.00
ATOM 1398	2HB	SER A	95	128.961	-5.085	13.238	1.00	0.00
ATOM 1399	HG	SER A	95	131.760	-4.956	13.626	1.00	0.00
ATOM 1400	N	LEU A	96	128.285	-6.009	10.599	1.00	0.00
ATOM 1401	CA	LEU A	96	127.113	-5.988	9.731	1.00	0.00
ATOM 1402	C	LEU A	96	125.874	-5.541	10.499	1.00	0.00
ATOM 1403	O	LEU A	96	124.778	-6.061	10.288	1.00	0.00
ATOM 1404	CB	LEU A	96	126.879	-7.371	9.121	1.00	0.00
ATOM 1405	CG	LEU A	96	126.293	-7.366	7.708	1.00	0.00
ATOM 1406	CD1	LEU A	96	126.771	-8.580	6.928	1.00	0.00
ATOM 1407	CD2	LEU A	96	124.773	-7.329	7.763	1.00	0.00
ATOM 1408	H	LEU A	96	128.439	-6.788	11.173	1.00	0.00
ATOM 1409	HA	LEU A	96	127.303	-5.282	8.936	1.00	0.00
ATOM 1410	1HB	LEU A	96	127.825	-7.895	9.095	1.00	0.00
ATOM 1411	2HB	LEU A	96	126.203	-7.915	9.764	1.00	0.00
ATOM 1412	HG	LEU A	96	126.632	-6.481	7.189	1.00	0.00
ATOM 1413	1HD1	LEU A	96	126.084	-9.400	7.081	1.00	0.00
ATOM 1414	2HD1	LEU A	96	127.754	-8.865	7.272	1.00	0.00
ATOM 1415	3HD1	LEU A	96	126.814	-8.338	5.876	1.00	0.00

ATOM 1416	1HD2	LEU A	96	124.443	-6.314	7.924	1.00	0.00
ATOM 1417	2HD2	LEU A	96	124.427	-7.954	8.575	1.00	0.00
ATOM 1418	3HD2	LEU A	96	124.371	-7.695	6.831	1.00	0.00
ATOM 1419	N	GLN A	97	126.055	-4.571	11.390	1.00	0.00
ATOM 1420	CA	GLN A	97	124.950	-4.053	12.189	1.00	0.00
ATOM 1421	C	GLN A	97	125.030	-2.532	12.306	1.00	0.00
ATOM 1422	O	GLN A	97	125.704	-2.005	13.192	1.00	0.00
ATOM 1423	CB	GLN A	97	124.963	-4.683	13.583	1.00	0.00
ATOM 1424	CG	GLN A	97	124.766	-6.190	13.571	1.00	0.00
ATOM 1425	CD	GLN A	97	125.082	-6.830	14.909	1.00	0.00
ATOM 1426	OE1	GLN A	97	124.623	-6.370	15.954	1.00	0.00
ATOM 1427	NE2	GLN A	97	125.870	-7.898	14.882	1.00	0.00
ATOM 1428	H	GLN A	97	126.952	-4.196	11.513	1.00	0.00
ATOM 1429	HA	GLN A	97	124.029	-4.318	11.695	1.00	0.00
ATOM 1430	1HB	GLN A	97	125.913	-4.470	14.054	1.00	0.00
ATOM 1431	2HB	GLN A	97	124.173	-4.242	14.172	1.00	0.00
ATOM 1432	1HG	GLN A	97	123.736	-6.403	13.322	1.00	0.00
ATOM 1433	2HG	GLN A	97	125.414	-6.620	12.821	1.00	0.00
ATOM 1434	1HE2	GLN A	97	126.200	-8.209	14.013	1.00	0.00
ATOM 1435	2HE2	GLN A	97	126.091	-8.332	15.732	1.00	0.00
ATOM 1436	N	PRO A	98	124.340	-1.804	11.411	1.00	0.00
ATOM 1437	CA	PRO A	98	124.338	-0.339	11.421	1.00	0.00
ATOM 1438	C	PRO A	98	123.503	0.233	12.562	1.00	0.00
ATOM 1439	O	PRO A	98	122.523	-0.378	12.993	1.00	0.00
ATOM 1440	CB	PRO A	98	123.717	0.020	10.071	1.00	0.00
ATOM 1441	CG	PRO A	98	122.837	-1.136	9.742	1.00	0.00
ATOM 1442	CD	PRO A	98	123.510	-2.352	10.321	1.00	0.00
ATOM 1443	HA	PRO A	98	125.341	0.058	11.477	1.00	0.00
ATOM 1444	1HB	PRO A	98	123.151	0.936	10.164	1.00	0.00

ATOM 1445	2HB	PRO A	98	124.495	0.145	9.334	1.00	0.00
ATOM 1446	1HG	PRO A	98	121.864	-0.996	10.192	1.00	0.00
ATOM 1447	2HG	PRO A	98	122.744	-1.234	8.671	1.00	0.00
ATOM 1448	1HD	PRO A	98	122.773	-3.041	10.708	1.00	0.00
ATOM 1449	2HD	PRO A	98	124.123	-2.834	9.576	1.00	0.00
ATOM 1450	N	SER A	99	123.896	1.405	13.048	1.00	0.00
ATOM 1451	CA	SER A	99	123.183	2.058	14.139	1.00	0.00
ATOM 1452	C	SER A	99	121.936	2.769	13.625	1.00	0.00
ATOM 1453	O	SER A	99	121.949	3.978	13.392	1.00	0.00
ATOM 1454	CB	SER A	99	124.099	3.058	14.847	1.00	0.00
ATOM 1455	OG	SER A	99	123.376	3.838	15.784	1.00	0.00
ATOM 1456	H	SER A	99	124.685	1.842	12.662	1.00	0.00
ATOM 1457	HA	SER A	99	122.885	1.297	14.843	1.00	0.00
ATOM 1458	1HB	SER A	99	124.878	2.522	15.369	1.00	0.00
ATOM 1459	2HB	SER A	99	124.543	3.717	14.115	1.00	0.00
ATOM 1460	HG	SER A	99	123.687	4.746	15.754	1.00	0.00
ATOM 1461	N	GLY A	100	120.858	2.011	13.452	1.00	0.00
ATOM 1462	CA	GLY A	100	119.617	2.585	12.966	1.00	0.00
ATOM 1463	C	GLY A	100	118.641	2.890	14.088	1.00	0.00
ATOM 1464	O	GLY A	100	118.712	2.283	15.156	1.00	0.00
ATOM 1465	H	GLY A	100	120.906	1.053	13.654	1.00	0.00
ATOM 1466	1HA	GLY A	100	119.839	3.500	12.438	1.00	0.00
ATOM 1467	2HA	GLY A	100	119.154	1.890	12.281	1.00	0.00
ATOM 1468	N	PRO A	101	117.710	3.837	13.874	1.00	0.00
ATOM 1469	CA	PRO A	101	116.718	4.211	14.886	1.00	0.00
ATOM 1470	C	PRO A	101	115.686	3.114	15.120	1.00	0.00
ATOM 1471	O	PRO A	101	115.170	2.959	16.227	1.00	0.00
ATOM 1472	CB	PRO A	101	116.052	5.453	14.289	1.00	0.00
ATOM 1473	CG	PRO A	101	116.233	5.309	12.818	1.00	0.00

ATOM 1474	CD	PRO A 101	117.552	4.612	12.629	1.00	0.00
ATOM 1475	HA	PRO A 101	117.188	4.468	15.824	1.00	0.00
ATOM 1476	1HB	PRO A 101	115.006	5.468	14.559	1.00	0.00
ATOM 1477	2HB	PRO A 101	116.539	6.341	14.661	1.00	0.00
ATOM 1478	1HG	PRO A 101	115.431	4.713	12.405	1.00	0.00
ATOM 1479	2HG	PRO A 101	116.254	6.283	12.353	1.00	0.00
ATOM 1480	1HD	PRO A 101	117.515	3.959	11.769	1.00	0.00
ATOM 1481	2HD	PRO A 101	118.349	5.334	12.521	1.00	0.00
ATOM 1482	N	SER A 102	115.391	2.353	14.071	1.00	0.00
ATOM 1483	CA	SER A 102	114.422	1.268	14.162	1.00	0.00
ATOM 1484	C	SER A 102	115.026	-0.046	13.678	1.00	0.00
ATOM 1485	O	SER A 102	115.981	-0.051	12.900	1.00	0.00
ATOM 1486	CB	SER A 102	113.174	1.602	13.342	1.00	0.00
ATOM 1487	OG	SER A 102	113.518	1.991	12.024	1.00	0.00
ATOM 1488	H	SER A 102	115.837	2.524	13.215	1.00	0.00
ATOM 1489	HA	SER A 102	114.140	1.160	15.200	1.00	0.00
ATOM 1490	1HB	SER A 102	112.535	0.731	13.291	1.00	0.00
ATOM 1491	2HB	SER A 102	112.640	2.412	13.817	1.00	0.00
ATOM 1492	HG	SER A 102	114.158	1.372	11.664	1.00	0.00
ATOM 1493	N	SER A 103	114.464	-1.158	14.141	1.00	0.00
ATOM 1494	CA	SER A 103	114.948	-2.477	13.755	1.00	0.00
ATOM 1495	C	SER A 103	113.793	-3.377	13.328	1.00	0.00
ATOM 1496	O	SER A 103	113.006	-3.830	14.160	1.00	0.00
ATOM 1497	CB	SER A 103	115.712	-3.123	14.912	1.00	0.00
ATOM 1498	OG	SER A 103	116.827	-3.859	14.441	1.00	0.00
ATOM 1499	H	SER A 103	113.705	-1.088	14.757	1.00	0.00
ATOM 1500	HA	SER A 103	115.619	-2.352	12.918	1.00	0.00
ATOM 1501	1HB	SER A 103	116.064	-2.352	15.583	1.00	0.00
ATOM 1502	2HB	SER A 103	115.053	-3.791	15.447	1.00	0.00

ATOM 1503	HG	SER A 103	117.625	-3.339	14.550	1.00	0.00
ATOM 1504	N	GLY A 104	113.698	-3.632	12.027	1.00	0.00
ATOM 1505	CA	GLY A 104	112.636	-4.477	11.513	1.00	0.00
ATOM 1506	C	GLY A 104	113.033	-5.939	11.455	1.00	0.00
ATOM 1507	O	GLY A 104	114.116	-6.238	10.910	1.00	0.00
ATOM 1508	OXT	GLY A 104	112.263	-6.784	11.956	1.00	0.00
ATOM 1509	H	GLY A 104	114.353	-3.244	11.412	1.00	0.00
ATOM 1510	1HA	GLY A 104	111.770	-4.376	12.151	1.00	0.00
ATOM 1511	2HA	GLY A 104	112.377	-4.146	10.518	1.00	0.00
TER 1512		GLY A 104					
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ATOM 1	N	GLY A	1	120.679	30.983	-5.770	1.00	0.00
ATOM 2	CA	GLY A	1	121.946	31.445	-6.400	1.00	0.00
ATOM 3	C	GLY A	1	122.753	30.303	-6.986	1.00	0.00
ATOM 4	O	GLY A	1	122.711	30.059	-8.191	1.00	0.00
ATOM 5	1H	GLY A	1	120.030	30.619	-6.498	1.00	0.00
ATOM 6	2H	GLY A	1	120.217	31.771	-5.273	1.00	0.00
ATOM 7	3H	GLY A	1	120.875	30.224	-5.086	1.00	0.00
ATOM 8	1HA	GLY A	1	121.710	32.145	-7.187	1.00	0.00
ATOM 9	2HA	GLY A	1	122.543	31.947	-5.653	1.00	0.00
ATOM 10	N	SER A	2	123.490	29.602	-6.130	1.00	0.00
ATOM 11	CA	SER A	2	124.311	28.479	-6.568	1.00	0.00
ATOM 12	C	SER A	2	124.545	27.497	-5.426	1.00	0.00
ATOM 13	O	SER A	2	125.589	27.525	-4.775	1.00	0.00
ATOM 14	CB	SER A	2	125.652	28.981	-7.110	1.00	0.00
ATOM 15	OG	SER A	2	126.417	27.915	-7.643	1.00	0.00

ATOM 16	H	SER A	2	123.482	29.846	-5.180	1.00	0.00
ATOM 17	HA	SER A	2	123.781	27.972	-7.360	1.00	0.00
ATOM 18	1HB	SER A	2	125.473	29.706	-7.890	1.00	0.00
ATOM 19	2HB	SER A	2	126.209	29.443	-6.309	1.00	0.00
ATOM 20	HG	SER A	2	127.121	28.270	-8.192	1.00	0.00
ATOM 21	N	SER A	3	123.568	26.629	-5.188	1.00	0.00
ATOM 22	CA	SER A	3	123.668	25.638	-4.124	1.00	0.00
ATOM 23	C	SER A	3	122.933	24.356	-4.503	1.00	0.00
ATOM 24	O	SER A	3	121.819	24.107	-4.040	1.00	0.00
ATOM 25	CB	SER A	3	123.099	26.199	-2.820	1.00	0.00
ATOM 26	OG	SER A	3	123.804	25.698	-1.698	1.00	0.00
ATOM 27	H	SER A	3	122.760	26.656	-5.742	1.00	0.00
ATOM 28	HA	SER A	3	124.714	25.409	-3.981	1.00	0.00
ATOM 29	1HB	SER A	3	123.181	27.276	-2.828	1.00	0.00
ATOM 30	2HB	SER A	3	122.060	25.918	-2.732	1.00	0.00
ATOM 31	HG	SER A	3	123.329	25.922	-0.893	1.00	0.00
ATOM 32	N	GLY A	4	123.562	23.546	-5.348	1.00	0.00
ATOM 33	CA	GLY A	4	122.953	22.300	-5.776	1.00	0.00
ATOM 34	C	GLY A	4	123.909	21.127	-5.686	1.00	0.00
ATOM 35	O	GLY A	4	125.081	21.243	-6.045	1.00	0.00
ATOM 36	H	GLY A	4	124.448	23.797	-5.684	1.00	0.00
ATOM 37	1HA	GLY A	4	122.095	22.100	-5.152	1.00	0.00
ATOM 38	2HA	GLY A	4	122.625	22.406	-6.799	1.00	0.00
ATOM 39	N	SER A	5	123.408	19.994	-5.206	1.00	0.00
ATOM 40	CA	SER A	5	124.225	18.794	-5.070	1.00	0.00
ATOM 41	C	SER A	5	123.495	17.574	-5.622	1.00	0.00
ATOM 42	O	SER A	5	122.346	17.311	-5.267	1.00	0.00
ATOM 43	CB	SER A	5	124.590	18.563	-3.603	1.00	0.00
ATOM 44	OG	SER A	5	125.250	19.693	-3.058	1.00	0.00

ATOM 45	H	SER A	5	122.466	19.964	-4.937	1.00	0.00
ATOM 46	HA	SER A	5	125.131	18.943	-5.637	1.00	0.00
ATOM 47	1HB	SER A	5	123.690	18.380	-3.034	1.00	0.00
ATOM 48	2HB	SER A	5	125.244	17.708	-3.527	1.00	0.00
ATOM 49	HG	SER A	5	124.629	20.205	-2.535	1.00	0.00
ATOM 50	N	SER A	6	124.170	16.830	-6.493	1.00	0.00
ATOM 51	CA	SER A	6	123.587	15.637	-7.094	1.00	0.00
ATOM 52	C	SER A	6	123.342	14.561	-6.042	1.00	0.00
ATOM 53	O	SER A	6	122.320	13.877	-6.064	1.00	0.00
ATOM 54	CB	SER A	6	124.502	15.094	-8.194	1.00	0.00
ATOM 55	OG	SER A	6	124.009	13.870	-8.709	1.00	0.00
ATOM 56	H	SER A	6	125.083	17.091	-6.737	1.00	0.00
ATOM 57	HA	SER A	6	122.640	15.917	-7.532	1.00	0.00
ATOM 58	1HB	SER A	6	124.560	15.813	-8.998	1.00	0.00
ATOM 59	2HB	SER A	6	125.489	14.929	-7.787	1.00	0.00
ATOM 60	HG	SER A	6	124.036	13.200	-8.024	1.00	0.00
ATOM 61	N	GLY A	7	124.290	14.415	-5.121	1.00	0.00
ATOM 62	CA	GLY A	7	124.159	13.420	-4.073	1.00	0.00
ATOM 63	C	GLY A	7	124.966	12.168	-4.358	1.00	0.00
ATOM 64	O	GLY A	7	124.410	11.130	-4.715	1.00	0.00
ATOM 65	H	GLY A	7	125.084	14.989	-5.153	1.00	0.00
ATOM 66	1HA	GLY A	7	124.496	13.848	-3.141	1.00	0.00
ATOM 67	2HA	GLY A	7	123.118	13.149	-3.978	1.00	0.00
ATOM 68	N	LEU A	8	126.282	12.267	-4.199	1.00	0.00
ATOM 69	CA	LEU A	8	127.168	11.136	-4.441	1.00	0.00
ATOM 70	C	LEU A	8	127.444	10.371	-3.149	1.00	0.00
ATOM 71	O	LEU A	8	127.690	9.166	-3.171	1.00	0.00
ATOM 72	CB	LEU A	8	128.485	11.614	-5.055	1.00	0.00
ATOM 73	CG	LEU A	8	128.357	12.279	-6.427	1.00	0.00

ATOM 74	CD1	LEU A	8	129.663	12.949	-6.820	1.00	0.00
ATOM 75	CD2	LEU A	8	127.944	11.256	-7.475	1.00	0.00
ATOM 76	H	LEU A	8	126.666	13.122	-3.912	1.00	0.00
ATOM 77	HA	LEU A	8	126.677	10.473	-5.139	1.00	0.00
ATOM 78	1HB	LEU A	8	128.937	12.324	-4.375	1.00	0.00
ATOM 79	2HB	LEU A	8	129.144	10.765	-5.151	1.00	0.00
ATOM 80	HG	LEU A	8	127.592	13.039	-6.381	1.00	0.00
ATOM 81	1HD1	LEU A	8	130.493	12.379	-6.430	1.00	0.00
ATOM 82	2HD1	LEU A	8	129.691	13.950	-6.412	1.00	0.00
ATOM 83	3HD1	LEU A	8	129.734	12.997	-7.896	1.00	0.00
ATOM 84	1HD2	LEU A	8	128.293	11.574	-8.446	1.00	0.00
ATOM 85	2HD2	LEU A	8	126.867	11.171	-7.490	1.00	0.00
ATOM 86	3HD2	LEU A	8	128.377	10.297	-7.233	1.00	0.00
ATOM 87	N	ALA A	9	127.401	11.081	-2.026	1.00	0.00
ATOM 88	CA	ALA A	9	127.645	10.468	-0.726	1.00	0.00
ATOM 89	C	ALA A	9	129.062	9.911	-0.640	1.00	0.00
ATOM 90	O	ALA A	9	129.282	8.825	-0.104	1.00	0.00
ATOM 91	CB	ALA A	9	126.626	9.371	-0.457	1.00	0.00
ATOM 92	H	ALA A	9	127.199	12.039	-2.073	1.00	0.00
ATOM 93	HA	ALA A	9	127.524	11.231	0.030	1.00	0.00
ATOM 94	1HB	ALA A	9	126.702	9.053	0.573	1.00	0.00
ATOM 95	2HB	ALA A	9	126.821	8.532	-1.108	1.00	0.00
ATOM 96	3HB	ALA A	9	125.632	9.749	-0.645	1.00	0.00
ATOM 97	N	MET A	10	130.020	10.663	-1.171	1.00	0.00
ATOM 98	CA	MET A	10	131.417	10.244	-1.155	1.00	0.00
ATOM 99	C	MET A	10	132.321	11.385	-0.688	1.00	0.00
ATOM 100	O	MET A	10	133.052	11.975	-1.484	1.00	0.00
ATOM 101	CB	MET A	10	131.845	9.772	-2.545	1.00	0.00
ATOM 102	CG	MET A	10	130.834	8.856	-3.215	1.00	0.00

ATOM 103	SD	MET A	10	131.476	8.092	-4.717	1.00	0.00
ATOM 104	CE	MET A	10	131.040	9.327	-5.937	1.00	0.00
ATOM 105	H	MET A	10	129.783	11.519	-1.583	1.00	0.00
ATOM 106	HA	MET A	10	131.508	9.422	-0.461	1.00	0.00
ATOM 107	1HB	MET A	10	131.990	10.636	-3.178	1.00	0.00
ATOM 108	2HB	MET A	10	132.781	9.240	-2.460	1.00	0.00
ATOM 109	1HG	MET A	10	130.562	8.074	-2.520	1.00	0.00
ATOM 110	2HG	MET A	10	129.957	9.433	-3.468	1.00	0.00
ATOM 111	1HE	MET A	10	131.068	10.308	-5.484	1.00	0.00
ATOM 112	2HE	MET A	10	130.045	9.131	-6.310	1.00	0.00
ATOM 113	3HE	MET A	10	131.744	9.290	-6.755	1.00	0.00
ATOM 114	N	PRO A	11	132.281	11.710	0.616	1.00	0.00
ATOM 115	CA	PRO A	11	133.100	12.784	1.185	1.00	0.00
ATOM 116	C	PRO A	11	134.595	12.556	0.964	1.00	0.00
ATOM 117	O	PRO A	11	135.309	13.464	0.541	1.00	0.00
ATOM 118	CB	PRO A	11	132.769	12.754	2.681	1.00	0.00
ATOM 119	CG	PRO A	11	131.476	12.019	2.785	1.00	0.00
ATOM 120	CD	PRO A	11	131.439	11.057	1.632	1.00	0.00
ATOM 121	HA	PRO A	11	132.825	13.745	0.774	1.00	0.00
ATOM 122	1HB	PRO A	11	133.557	12.246	3.216	1.00	0.00
ATOM 123	2HB	PRO A	11	132.675	13.766	3.049	1.00	0.00
ATOM 124	1HG	PRO A	11	131.439	11.479	3.719	1.00	0.00
ATOM 125	2HG	PRO A	11	130.653	12.714	2.720	1.00	0.00
ATOM 126	1HD	PRO A	11	131.852	10.102	1.921	1.00	0.00
ATOM 127	2HD	PRO A	11	130.427	10.938	1.273	1.00	0.00
ATOM 128	N	PRO A	12	135.093	11.335	1.242	1.00	0.00
ATOM 129	CA	PRO A	12	136.511	11.009	1.060	1.00	0.00
ATOM 130	C	PRO A	12	136.986	11.295	-0.360	1.00	0.00
ATOM 131	O	PRO A	12	138.180	11.481	-0.600	1.00	0.00

ATOM 132	CB	PRO A	12	136.579	9.506	1.352	1.00	0.00
ATOM 133	CG	PRO A	12	135.386	9.226	2.199	1.00	0.00
ATOM 134	CD	PRO A	12	134.322	10.182	1.744	1.00	0.00
ATOM 135	HA	PRO A	12	137.133	11.544	1.762	1.00	0.00
ATOM 136	1HB	PRO A	12	136.543	8.956	0.423	1.00	0.00
ATOM 137	2HB	PRO A	12	137.495	9.281	1.875	1.00	0.00
ATOM 138	1HG	PRO A	12	135.063	8.206	2.050	1.00	0.00
ATOM 139	2HG	PRO A	12	135.625	9.397	3.237	1.00	0.00
ATOM 140	1HD	PRO A	12	133.730	9.741	0.954	1.00	0.00
ATOM 141	2HD	PRO A	12	133.694	10.468	2.572	1.00	0.00
ATOM 142	N	GLY A	13	136.044	11.330	-1.297	1.00	0.00
ATOM 143	CA	GLY A	13	136.385	11.595	-2.682	1.00	0.00
ATOM 144	C	GLY A	13	136.856	10.353	-3.413	1.00	0.00
ATOM 145	O	GLY A	13	137.632	10.440	-4.365	1.00	0.00
ATOM 146	H	GLY A	13	135.109	11.175	-1.047	1.00	0.00
ATOM 147	1HA	GLY A	13	135.516	11.988	-3.187	1.00	0.00
ATOM 148	2HA	GLY A	13	137.171	12.335	-2.713	1.00	0.00
ATOM 149	N	ASN A	14	136.386	9.192	-2.966	1.00	0.00
ATOM 150	CA	ASN A	14	136.765	7.926	-3.585	1.00	0.00
ATOM 151	C	ASN A	14	135.536	7.063	-3.854	1.00	0.00
ATOM 152	O	ASN A	14	135.169	6.832	-5.006	1.00	0.00
ATOM 153	CB	ASN A	14	137.746	7.169	-2.688	1.00	0.00
ATOM 154	CG	ASN A	14	138.934	8.021	-2.284	1.00	0.00
ATOM 155	OD1	ASN A	14	139.701	8.478	-3.130	1.00	0.00
ATOM 156	ND2	ASN A	14	139.092	8.236	-0.983	1.00	0.00
ATOM 157	H	ASN A	14	135.771	9.186	-2.204	1.00	0.00
ATOM 158	HA	ASN A	14	137.246	8.147	-4.524	1.00	0.00
ATOM 159	1HB	ASN A	14	137.234	6.851	-1.792	1.00	0.00
ATOM 160	2HB	ASN A	14	138.111	6.301	-3.216	1.00	0.00

ATOM 161	1HD2	ASN	A	14	138.442	7.841	-0.365	1.00	0.00
ATOM 162	2HD2	ASN	A	14	139.852	8.783	-0.694	1.00	0.00
ATOM 163	N	SER	A	15	134.904	6.590	-2.785	1.00	0.00
ATOM 164	CA	SER	A	15	133.717	5.753	-2.908	1.00	0.00
ATOM 165	C	SER	A	15	132.994	5.633	-1.570	1.00	0.00
ATOM 166	O	SER	A	15	131.949	6.251	-1.359	1.00	0.00
ATOM 167	CB	SER	A	15	134.098	4.363	-3.419	1.00	0.00
ATOM 168	OG	SER	A	15	134.120	4.328	-4.836	1.00	0.00
ATOM 169	H	SER	A	15	135.245	6.809	-1.892	1.00	0.00
ATOM 170	HA	SER	A	15	133.054	6.220	-3.620	1.00	0.00
ATOM 171	1HB	SER	A	15	135.079	4.102	-3.051	1.00	0.00
ATOM 172	2HB	SER	A	15	133.377	3.640	-3.065	1.00	0.00
ATOM 173	HG	SER	A	15	133.330	4.753	-5.179	1.00	0.00
ATOM 174	N	HIS	A	16	133.555	4.836	-0.667	1.00	0.00
ATOM 175	CA	HIS	A	16	132.964	4.636	0.651	1.00	0.00
ATOM 176	C	HIS	A	16	133.749	5.390	1.720	1.00	0.00
ATOM 177	O	HIS	A	16	133.304	6.427	2.214	1.00	0.00
ATOM 178	CB	HIS	A	16	132.919	3.145	0.992	1.00	0.00
ATOM 179	CG	HIS	A	16	131.652	2.471	0.564	1.00	0.00
ATOM 180	ND1	HIS	A	16	130.421	2.767	1.112	1.00	0.00
ATOM 181	CD2	HIS	A	16	131.427	1.513	-0.365	1.00	0.00
ATOM 182	CE1	HIS	A	16	129.495	2.018	0.539	1.00	0.00
ATOM 183	NE2	HIS	A	16	130.079	1.248	-0.360	1.00	0.00
ATOM 184	H	HIS	A	16	134.388	4.371	-0.893	1.00	0.00
ATOM 185	HA	HIS	A	16	131.956	5.020	0.623	1.00	0.00
ATOM 186	1HB	HIS	A	16	133.741	2.645	0.501	1.00	0.00
ATOM 187	2HB	HIS	A	16	133.016	3.024	2.060	1.00	0.00
ATOM 188	HD1	HIS	A	16	130.251	3.427	1.817	1.00	0.00
ATOM 189	HD2	HIS	A	16	132.171	1.042	-0.992	1.00	0.00

ATOM 190	HE1	HIS A	16	128.440	2.033	0.768	1.00	0.00
ATOM 191	HE2	HIS A	16	129.636	0.539	-0.870	1.00	0.00
ATOM 192	N	GLY A	17	134.916	4.863	2.071	1.00	0.00
ATOM 193	CA	GLY A	17	135.744	5.499	3.079	1.00	0.00
ATOM 194	C	GLY A	17	137.137	4.907	3.143	1.00	0.00
ATOM 195	O	GLY A	17	137.453	4.141	4.056	1.00	0.00
ATOM 196	H	GLY A	17	135.219	4.035	1.643	1.00	0.00
ATOM 197	1HA	GLY A	17	135.823	6.552	2.852	1.00	0.00
ATOM 198	2HA	GLY A	17	135.271	5.384	4.044	1.00	0.00
ATOM 199	N	LEU A	18	137.973	5.258	2.173	1.00	0.00
ATOM 200	CA	LEU A	18	139.341	4.753	2.121	1.00	0.00
ATOM 201	C	LEU A	18	140.327	5.797	2.636	1.00	0.00
ATOM 202	O	LEU A	18	140.741	6.692	1.898	1.00	0.00
ATOM 203	CB	LEU A	18	139.705	4.353	0.691	1.00	0.00
ATOM 204	CG	LEU A	18	138.656	3.503	-0.030	1.00	0.00
ATOM 205	CD1	LEU A	18	138.908	3.505	-1.530	1.00	0.00
ATOM 206	CD2	LEU A	18	138.661	2.082	0.512	1.00	0.00
ATOM 207	H	LEU A	18	137.663	5.870	1.473	1.00	0.00
ATOM 208	HA	LEU A	18	139.396	3.881	2.756	1.00	0.00
ATOM 209	1HB	LEU A	18	139.866	5.253	0.117	1.00	0.00
ATOM 210	2HB	LEU A	18	140.629	3.795	0.720	1.00	0.00
ATOM 211	HG	LEU A	18	137.678	3.926	0.146	1.00	0.00
ATOM 212	1HD1	LEU A	18	138.015	3.179	-2.044	1.00	0.00
ATOM 213	2HD1	LEU A	18	139.721	2.833	-1.760	1.00	0.00
ATOM 214	3HD1	LEU A	18	139.163	4.505	-1.850	1.00	0.00
ATOM 215	1HD2	LEU A	18	138.267	1.410	-0.236	1.00	0.00
ATOM 216	2HD2	LEU A	18	138.048	2.032	1.399	1.00	0.00
ATOM 217	3HD2	LEU A	18	139.672	1.792	0.757	1.00	0.00
ATOM 218	N	GLU A	19	140.700	5.676	3.905	1.00	0.00

ATOM 219	CA	GLU A	19	141.638	6.608	4.520	1.00	0.00
ATOM 220	C	GLU A	19	142.630	5.870	5.412	1.00	0.00
ATOM 221	O	GLU A	19	142.538	4.654	5.586	1.00	0.00
ATOM 222	CB	GLU A	19	140.885	7.661	5.337	1.00	0.00
ATOM 223	CG	GLU A	19	139.926	7.069	6.356	1.00	0.00
ATOM 224	CD	GLU A	19	139.298	8.123	7.247	1.00	0.00
ATOM 225	OE1	GLU A	19	139.963	9.146	7.514	1.00	0.00
ATOM 226	OE2	GLU A	19	138.142	7.926	7.676	1.00	0.00
ATOM 227	H	GLU A	19	140.335	4.942	4.443	1.00	0.00
ATOM 228	HA	GLU A	19	142.181	7.101	3.728	1.00	0.00
ATOM 229	1HB	GLU A	19	141.603	8.273	5.862	1.00	0.00
ATOM 230	2HB	GLU A	19	140.318	8.285	4.661	1.00	0.00
ATOM 231	1HG	GLU A	19	139.138	6.548	5.831	1.00	0.00
ATOM 232	2HG	GLU A	19	140.467	6.369	6.977	1.00	0.00
ATOM 233	N	VAL A	20	143.579	6.610	5.974	1.00	0.00
ATOM 234	CA	VAL A	20	144.588	6.024	6.848	1.00	0.00
ATOM 235	C	VAL A	20	143.947	5.367	8.064	1.00	0.00
ATOM 236	O	VAL A	20	143.135	5.980	8.758	1.00	0.00
ATOM 237	CB	VAL A	20	145.602	7.081	7.324	1.00	0.00
ATOM 238	CG1	VAL A	20	146.750	6.422	8.073	1.00	0.00
ATOM 239	CG2	VAL A	20	146.120	7.892	6.146	1.00	0.00
ATOM 240	H	VAL A	20	143.601	7.574	5.796	1.00	0.00
ATOM 241	HA	VAL A	20	145.122	5.273	6.284	1.00	0.00
ATOM 242	HB	VAL A	20	145.097	7.754	8.003	1.00	0.00
ATOM 243	1HG1	VAL A	20	146.980	5.471	7.616	1.00	0.00
ATOM 244	2HG1	VAL A	20	146.465	6.266	9.103	1.00	0.00
ATOM 245	3HG1	VAL A	20	147.619	7.061	8.034	1.00	0.00
ATOM 246	1HG2	VAL A	20	146.387	7.226	5.339	1.00	0.00
ATOM 247	2HG2	VAL A	20	146.991	8.454	6.451	1.00	0.00

ATOM 248	3HG2	VAL	A	20	145.352	8.573	5.811	1.00	0.00
ATOM 249	N	GLY	A	21	144.315	4.116	8.318	1.00	0.00
ATOM 250	CA	GLY	A	21	143.767	3.397	9.453	1.00	0.00
ATOM 251	C	GLY	A	21	142.730	2.369	9.043	1.00	0.00
ATOM 252	O	GLY	A	21	142.569	1.342	9.702	1.00	0.00
ATOM 253	H	GLY	A	21	144.967	3.678	7.731	1.00	0.00
ATOM 254	1HA	GLY	A	21	144.571	2.894	9.970	1.00	0.00
ATOM 255	2HA	GLY	A	21	143.308	4.105	10.127	1.00	0.00
ATOM 256	N	SER	A	22	142.025	2.646	7.951	1.00	0.00
ATOM 257	CA	SER	A	22	140.997	1.738	7.453	1.00	0.00
ATOM 258	C	SER	A	22	141.600	0.694	6.520	1.00	0.00
ATOM 259	O	SER	A	22	142.542	0.977	5.779	1.00	0.00
ATOM 260	CB	SER	A	22	139.905	2.522	6.724	1.00	0.00
ATOM 261	OG	SER	A	22	139.368	3.539	7.552	1.00	0.00
ATOM 262	H	SER	A	22	142.199	3.481	7.468	1.00	0.00
ATOM 263	HA	SER	A	22	140.561	1.235	8.303	1.00	0.00
ATOM 264	1HB	SER	A	22	140.322	2.979	5.839	1.00	0.00
ATOM 265	2HB	SER	A	22	139.110	1.847	6.440	1.00	0.00
ATOM 266	HG	SER	A	22	139.019	3.147	8.356	1.00	0.00
ATOM 267	N	LEU	A	23	141.050	-0.515	6.559	1.00	0.00
ATOM 268	CA	LEU	A	23	141.534	-1.603	5.717	1.00	0.00
ATOM 269	C	LEU	A	23	141.086	-1.412	4.272	1.00	0.00
ATOM 270	O	LEU	A	23	139.981	-0.937	4.011	1.00	0.00
ATOM 271	CB	LEU	A	23	141.030	-2.948	6.245	1.00	0.00
ATOM 272	CG	LEU	A	23	141.349	-3.227	7.714	1.00	0.00
ATOM 273	CD1	LEU	A	23	140.291	-4.131	8.328	1.00	0.00
ATOM 274	CD2	LEU	A	23	142.729	-3.851	7.849	1.00	0.00
ATOM 275	H	LEU	A	23	140.302	-0.680	7.171	1.00	0.00
ATOM 276	HA	LEU	A	23	142.613	-1.595	5.752	1.00	0.00

ATOM 277	1HB	LEU A	23	139.958	-2.982	6.118	1.00	0.00
ATOM 278	2HB	LEU A	23	141.470	-3.733	5.649	1.00	0.00
ATOM 279	HG	LEU A	23	141.348	-2.294	8.260	1.00	0.00
ATOM 280	1HD1	LEU A	23	140.741	-4.742	9.095	1.00	0.00
ATOM 281	2HD1	LEU A	23	139.871	-4.765	7.562	1.00	0.00
ATOM 282	3HD1	LEU A	23	139.509	-3.525	8.763	1.00	0.00
ATOM 283	1HD2	LEU A	23	143.207	-3.480	8.744	1.00	0.00
ATOM 284	2HD2	LEU A	23	143.327	-3.594	6.987	1.00	0.00
ATOM 285	3HD2	LEU A	23	142.635	-4.926	7.913	1.00	0.00
ATOM 286	N	ALA A	24	141.952	-1.786	3.335	1.00	0.00
ATOM 287	CA	ALA A	24	141.646	-1.657	1.917	1.00	0.00
ATOM 288	C	ALA A	24	142.301	-2.774	1.110	1.00	0.00
ATOM 289	O	ALA A	24	143.405	-3.216	1.426	1.00	0.00
ATOM 290	CB	ALA A	24	142.097	-0.299	1.401	1.00	0.00
ATOM 291	H	ALA A	24	142.817	-2.159	3.606	1.00	0.00
ATOM 292	HA	ALA A	24	140.575	-1.723	1.799	1.00	0.00
ATOM 293	1HB	ALA A	24	141.698	-0.138	0.411	1.00	0.00
ATOM 294	2HB	ALA A	24	143.176	-0.267	1.364	1.00	0.00
ATOM 295	3HB	ALA A	24	141.737	0.475	2.064	1.00	0.00
ATOM 296	N	GLU A	25	141.611	-3.226	0.068	1.00	0.00
ATOM 297	CA	GLU A	25	142.125	-4.292	-0.784	1.00	0.00
ATOM 298	C	GLU A	25	142.308	-3.804	-2.217	1.00	0.00
ATOM 299	O	GLU A	25	141.520	-2.999	-2.715	1.00	0.00
ATOM 300	CB	GLU A	25	141.178	-5.493	-0.760	1.00	0.00
ATOM 301	CG	GLU A	25	141.860	-6.812	-1.087	1.00	0.00
ATOM 302	CD	GLU A	25	141.004	-7.711	-1.959	1.00	0.00
ATOM 303	OE1	GLU A	25	140.828	-8.893	-1.599	1.00	0.00
ATOM 304	OE2	GLU A	25	140.509	-7.231	-3.001	1.00	0.00
ATOM 305	H	GLU A	25	140.736	-2.833	-0.133	1.00	0.00

ATOM 306	HA	GLU A	25	143.086	-4.595	-0.395	1.00	0.00
ATOM 307	1HB	GLU A	25	140.741	-5.574	0.224	1.00	0.00
ATOM 308	2HB	GLU A	25	140.391	-5.331	-1.482	1.00	0.00
ATOM 309	1HG	GLU A	25	142.783	-6.606	-1.607	1.00	0.00
ATOM 310	2HG	GLU A	25	142.074	-7.330	-0.164	1.00	0.00
ATOM 311	N	VAL A	26	143.353	-4.295	-2.876	1.00	0.00
ATOM 312	CA	VAL A	26	143.639	-3.909	-4.252	1.00	0.00
ATOM 313	C	VAL A	26	143.308	-5.041	-5.219	1.00	0.00
ATOM 314	O	VAL A	26	143.243	-6.207	-4.827	1.00	0.00
ATOM 315	CB	VAL A	26	145.118	-3.513	-4.429	1.00	0.00
ATOM 316	CG1	VAL A	26	145.362	-2.965	-5.827	1.00	0.00
ATOM 317	CG2	VAL A	26	145.530	-2.499	-3.372	1.00	0.00
ATOM 318	H	VAL A	26	143.944	-4.934	-2.425	1.00	0.00
ATOM 319	HA	VAL A	26	143.026	-3.052	-4.493	1.00	0.00
ATOM 320	HB	VAL A	26	145.724	-4.398	-4.304	1.00	0.00
ATOM 321	1HG1	VAL A	26	145.516	-3.785	-6.513	1.00	0.00
ATOM 322	2HG1	VAL A	26	146.239	-2.335	-5.818	1.00	0.00
ATOM 323	3HG1	VAL A	26	144.506	-2.388	-6.142	1.00	0.00
ATOM 324	1HG2	VAL A	26	146.511	-2.751	-2.996	1.00	0.00
ATOM 325	2HG2	VAL A	26	144.819	-2.513	-2.560	1.00	0.00
ATOM 326	3HG2	VAL A	26	145.556	-1.512	-3.810	1.00	0.00
ATOM 327	N	LYS A	27	143.097	-4.690	-6.483	1.00	0.00
ATOM 328	CA	LYS A	27	142.772	-5.678	-7.506	1.00	0.00
ATOM 329	C	LYS A	27	144.017	-6.081	-8.290	1.00	0.00
ATOM 330	O	LYS A	27	143.958	-6.293	-9.501	1.00	0.00
ATOM 331	CB	LYS A	27	141.711	-5.125	-8.460	1.00	0.00
ATOM 332	CG	LYS A	27	140.976	-6.201	-9.241	1.00	0.00
ATOM 333	CD	LYS A	27	140.368	-5.643	-10.518	1.00	0.00
ATOM 334	CE	LYS A	27	140.343	-6.687	-11.623	1.00	0.00

ATOM 335	NZ	LYS A	27	139.044	-7.413	-11.675	1.00	0.00
ATOM 336	H	LYS A	27	143.163	-3.745	-6.734	1.00	0.00
ATOM 337	HA	LYS A	27	142.375	-6.550	-7.009	1.00	0.00
ATOM 338	1HB	LYS A	27	140.985	-4.565	-7.888	1.00	0.00
ATOM 339	2HB	LYS A	27	142.189	-4.461	-9.165	1.00	0.00
ATOM 340	1HG	LYS A	27	141.671	-6.984	-9.498	1.00	0.00
ATOM 341	2HG	LYS A	27	140.187	-6.604	-8.624	1.00	0.00
ATOM 342	1HD	LYS A	27	139.356	-5.326	-10.315	1.00	0.00
ATOM 343	2HD	LYS A	27	140.955	-4.798	-10.846	1.00	0.00
ATOM 344	1HE	LYS A	27	140.507	-6.194	-12.570	1.00	0.00
ATOM 345	2HE	LYS A	27	141.137	-7.398	-11.447	1.00	0.00
ATOM 346	1HZ	LYS A	27	138.370	-6.896	-12.277	1.00	0.00
ATOM 347	2HZ	LYS A	27	138.643	-7.495	-10.720	1.00	0.00
ATOM 348	3HZ	LYS A	27	139.182	-8.367	-12.065	1.00	0.00
ATOM 349	N	GLU A	28	145.141	-6.187	-7.591	1.00	0.00
ATOM 350	CA	GLU A	28	146.401	-6.566	-8.222	1.00	0.00
ATOM 351	C	GLU A	28	146.446	-8.068	-8.485	1.00	0.00
ATOM 352	O	GLU A	28	145.486	-8.786	-8.207	1.00	0.00
ATOM 353	CB	GLU A	28	147.582	-6.154	-7.340	1.00	0.00
ATOM 354	CG	GLU A	28	148.687	-5.437	-8.100	1.00	0.00
ATOM 355	CD	GLU A	28	150.071	-5.885	-7.675	1.00	0.00
ATOM 356	OE1	GLU A	28	150.576	-5.368	-6.655	1.00	0.00
ATOM 357	OE2	GLU A	28	150.652	-6.753	-8.360	1.00	0.00
ATOM 358	H	GLU A	28	145.125	-6.005	-6.628	1.00	0.00
ATOM 359	HA	GLU A	28	146.468	-6.045	-9.165	1.00	0.00
ATOM 360	1HB	GLU A	28	147.223	-5.494	-6.564	1.00	0.00
ATOM 361	2HB	GLU A	28	148.003	-7.037	-6.883	1.00	0.00
ATOM 362	1HG	GLU A	28	148.570	-5.638	-9.155	1.00	0.00
ATOM 363	2HG	GLU A	28	148.598	-4.376	-7.924	1.00	0.00

ATOM 364	N	ASN A	29	147.567	-8.535	-9.023	1.00	0.00
ATOM 365	CA	ASN A	29	147.737	-9.952	-9.323	1.00	0.00
ATOM 366	C	ASN A	29	147.676	-10.789	-8.047	1.00	0.00
ATOM 367	O	ASN A	29	146.827	-11.670	-7.913	1.00	0.00
ATOM 368	CB	ASN A	29	149.069	-10.187	-10.039	1.00	0.00
ATOM 369	CG	ASN A	29	148.909	-10.256	-11.545	1.00	0.00
ATOM 370	OD1	ASN A	29	148.911	-11.338	-12.132	1.00	0.00
ATOM 371	ND2	ASN A	29	148.770	-9.097	-12.180	1.00	0.00
ATOM 372	H	ASN A	29	148.298	-7.914	-9.221	1.00	0.00
ATOM 373	HA	ASN A	29	146.930	-10.252	-9.975	1.00	0.00
ATOM 374	1HB	ASN A	29	149.744	-9.378	-9.805	1.00	0.00
ATOM 375	2HB	ASN A	29	149.497	-11.118	-9.697	1.00	0.00
ATOM 376	1HD2	ASN A	29	148.778	-8.275	-11.647	1.00	0.00
ATOM 377	2HD2	ASN A	29	148.665	-9.113	-13.154	1.00	0.00
ATOM 378	N	PRO A	30	148.579	-10.522	-7.087	1.00	0.00
ATOM 379	CA	PRO A	30	148.624	-11.252	-5.818	1.00	0.00
ATOM 380	C	PRO A	30	147.529	-10.802	-4.852	1.00	0.00
ATOM 381	O	PRO A	30	147.581	-9.694	-4.319	1.00	0.00
ATOM 382	CB	PRO A	30	150.002	-10.898	-5.265	1.00	0.00
ATOM 383	CG	PRO A	30	150.284	-9.540	-5.809	1.00	0.00
ATOM 384	CD	PRO A	30	149.627	-9.485	-7.165	1.00	0.00
ATOM 385	HA	PRO A	30	148.557	-12.319	-5.972	1.00	0.00
ATOM 386	1HB	PRO A	30	149.971	-10.894	-4.186	1.00	0.00
ATOM 387	2HB	PRO A	30	150.729	-11.619	-5.609	1.00	0.00
ATOM 388	1HG	PRO A	30	149.862	-8.790	-5.158	1.00	0.00
ATOM 389	2HG	PRO A	30	151.351	-9.397	-5.905	1.00	0.00
ATOM 390	1HD	PRO A	30	149.194	-8.511	-7.333	1.00	0.00
ATOM 391	2HD	PRO A	30	150.342	-9.719	-7.938	1.00	0.00
ATOM 392	N	PRO A	31	146.518	-11.657	-4.609	1.00	0.00

ATOM 393	CA	PRO A	31	145.415	-11.332	-3.699	1.00	0.00
ATOM 394	C	PRO A	31	145.868	-11.257	-2.244	1.00	0.00
ATOM 395	O	PRO A	31	145.707	-12.211	-1.484	1.00	0.00
ATOM 396	CB	PRO A	31	144.435	-12.490	-3.895	1.00	0.00
ATOM 397	CG	PRO A	31	145.275	-13.621	-4.374	1.00	0.00
ATOM 398	CD	PRO A	31	146.370	-13.002	-5.197	1.00	0.00
ATOM 399	HA	PRO A	31	144.939	-10.401	-3.973	1.00	0.00
ATOM 400	1HB	PRO A	31	143.954	-12.723	-2.956	1.00	0.00
ATOM 401	2HB	PRO A	31	143.690	-12.215	-4.628	1.00	0.00
ATOM 402	1HG	PRO A	31	145.694	-14.151	-3.530	1.00	0.00
ATOM 403	2HG	PRO A	31	144.682	-14.290	-4.981	1.00	0.00
ATOM 404	1HD	PRO A	31	147.284	-13.570	-5.097	1.00	0.00
ATOM 405	2HD	PRO A	31	146.074	-12.939	-6.233	1.00	0.00
ATOM 406	N	PHE A	32	146.434	-10.116	-1.864	1.00	0.00
ATOM 407	CA	PHE A	32	146.910	-9.917	-0.501	1.00	0.00
ATOM 408	C	PHE A	32	145.913	-9.094	0.309	1.00	0.00
ATOM 409	O	PHE A	32	144.931	-8.584	-0.232	1.00	0.00
ATOM 410	CB	PHE A	32	148.272	-9.220	-0.511	1.00	0.00
ATOM 411	CG	PHE A	32	148.324	-8.017	-1.409	1.00	0.00
ATOM 412	CD1	PHE A	32	149.118	-8.018	-2.544	1.00	0.00
ATOM 413	CD2	PHE A	32	147.577	-6.887	-1.119	1.00	0.00
ATOM 414	CE1	PHE A	32	149.167	-6.913	-3.373	1.00	0.00
ATOM 415	CE2	PHE A	32	147.622	-5.779	-1.944	1.00	0.00
ATOM 416	CZ	PHE A	32	148.419	-5.791	-3.072	1.00	0.00
ATOM 417	H	PHE A	32	146.535	-9.391	-2.517	1.00	0.00
ATOM 418	HA	PHE A	32	147.015	-10.887	-0.041	1.00	0.00
ATOM 419	1HB	PHE A	32	148.511	-8.896	0.491	1.00	0.00
ATOM 420	2HB	PHE A	32	149.024	-9.919	-0.846	1.00	0.00
ATOM 421	HD1	PHE A	32	149.704	-8.894	-2.780	1.00	0.00

ATOM 422	HD2	PHE A	32	146.954	-6.875	-0.236	1.00	0.00
ATOM 423	HE1	PHE A	32	149.792	-6.925	-4.254	1.00	0.00
ATOM 424	HE2	PHE A	32	147.036	-4.903	-1.705	1.00	0.00
ATOM 425	HZ	PHE A	32	148.456	-4.928	-3.718	1.00	0.00
ATOM 426	N	TYR A	33	146.171	-8.970	1.606	1.00	0.00
ATOM 427	CA	TYR A	33	145.294	-8.209	2.489	1.00	0.00
ATOM 428	C	TYR A	33	146.106	-7.332	3.438	1.00	0.00
ATOM 429	O	TYR A	33	146.957	-7.824	4.180	1.00	0.00
ATOM 430	CB	TYR A	33	144.398	-9.154	3.291	1.00	0.00
ATOM 431	CG	TYR A	33	143.192	-9.643	2.522	1.00	0.00
ATOM 432	CD1	TYR A	33	142.956	-11.002	2.350	1.00	0.00
ATOM 433	CD2	TYR A	33	142.287	-8.745	1.967	1.00	0.00
ATOM 434	CE1	TYR A	33	141.854	-11.451	1.648	1.00	0.00
ATOM 435	CE2	TYR A	33	141.183	-9.188	1.264	1.00	0.00
ATOM 436	CZ	TYR A	33	140.971	-10.541	1.107	1.00	0.00
ATOM 437	OH	TYR A	33	139.873	-10.985	0.407	1.00	0.00
ATOM 438	H	TYR A	33	146.969	-9.398	1.978	1.00	0.00
ATOM 439	HA	TYR A	33	144.674	-7.574	1.875	1.00	0.00
ATOM 440	1HB	TYR A	33	144.973	-10.019	3.588	1.00	0.00
ATOM 441	2HB	TYR A	33	144.046	-8.642	4.174	1.00	0.00
ATOM 442	HD1	TYR A	33	143.649	-11.712	2.776	1.00	0.00
ATOM 443	HD2	TYR A	33	142.457	-7.686	2.092	1.00	0.00
ATOM 444	HE1	TYR A	33	141.688	-12.511	1.526	1.00	0.00
ATOM 445	HE2	TYR A	33	140.492	-8.474	0.840	1.00	0.00
ATOM 446	HH	TYR A	33	139.113	-11.017	0.991	1.00	0.00
ATOM 447	N	GLY A	34	145.837	-6.031	3.408	1.00	0.00
ATOM 448	CA	GLY A	34	146.550	-5.107	4.269	1.00	0.00
ATOM 449	C	GLY A	34	145.676	-3.963	4.743	1.00	0.00
ATOM 450	O	GLY A	34	144.452	-4.089	4.797	1.00	0.00

ATOM 451	H	GLY A	34	145.148	-5.696	2.796	1.00	0.00
ATOM 452	1HA	GLY A	34	146.918	-5.644	5.131	1.00	0.00
ATOM 453	2HA	GLY A	34	147.390	-4.701	3.726	1.00	0.00
ATOM 454	N	VAL A	35	146.303	-2.843	5.086	1.00	0.00
ATOM 455	CA	VAL A	35	145.574	-1.672	5.558	1.00	0.00
ATOM 456	C	VAL A	35	146.235	-0.383	5.078	1.00	0.00
ATOM 457	O	VAL A	35	147.452	-0.326	4.904	1.00	0.00
ATOM 458	CB	VAL A	35	145.480	-1.651	7.096	1.00	0.00
ATOM 459	CG1	VAL A	35	146.865	-1.581	7.720	1.00	0.00
ATOM 460	CG2	VAL A	35	144.617	-0.488	7.565	1.00	0.00
ATOM 461	H	VAL A	35	147.280	-2.802	5.021	1.00	0.00
ATOM 462	HA	VAL A	35	144.572	-1.721	5.158	1.00	0.00
ATOM 463	HB	VAL A	35	145.012	-2.570	7.420	1.00	0.00
ATOM 464	1HG1	VAL A	35	147.133	-0.548	7.891	1.00	0.00
ATOM 465	2HG1	VAL A	35	147.585	-2.032	7.051	1.00	0.00
ATOM 466	3HG1	VAL A	35	146.866	-2.114	8.660	1.00	0.00
ATOM 467	1HG2	VAL A	35	145.012	0.436	7.169	1.00	0.00
ATOM 468	2HG2	VAL A	35	144.623	-0.448	8.645	1.00	0.00
ATOM 469	3HG2	VAL A	35	143.605	-0.627	7.216	1.00	0.00
ATOM 470	N	ILE A	36	145.424	0.648	4.865	1.00	0.00
ATOM 471	CA	ILE A	36	145.931	1.935	4.406	1.00	0.00
ATOM 472	C	ILE A	36	146.835	2.573	5.456	1.00	0.00
ATOM 473	O	ILE A	36	146.530	2.553	6.647	1.00	0.00
ATOM 474	CB	ILE A	36	144.781	2.907	4.074	1.00	0.00
ATOM 475	CG1	ILE A	36	143.779	2.243	3.126	1.00	0.00
ATOM 476	CG2	ILE A	36	145.328	4.187	3.460	1.00	0.00
ATOM 477	CD1	ILE A	36	142.620	3.139	2.746	1.00	0.00
ATOM 478	H	ILE A	36	144.463	0.540	5.022	1.00	0.00
ATOM 479	HA	ILE A	36	146.503	1.767	3.506	1.00	0.00

ATOM 480	HB	ILE A	36	144.279	3.165	4.994	1.00	0.00
ATOM 481	1HG1	ILE A	36	144.288	1.957	2.217	1.00	0.00
ATOM 482	2HG1	ILE A	36	143.376	1.360	3.600	1.00	0.00
ATOM 483	1HG2	ILE A	36	144.563	4.949	3.473	1.00	0.00
ATOM 484	2HG2	ILE A	36	145.630	3.999	2.440	1.00	0.00
ATOM 485	3HG2	ILE A	36	146.181	4.525	4.031	1.00	0.00
ATOM 486	1HD1	ILE A	36	142.885	4.169	2.932	1.00	0.00
ATOM 487	2HD1	ILE A	36	141.755	2.878	3.339	1.00	0.00
ATOM 488	3HD1	ILE A	36	142.392	3.008	1.699	1.00	0.00
ATOM 489	N	ARG A	37	147.950	3.137	5.004	1.00	0.00
ATOM 490	CA	ARG A	37	148.901	3.779	5.905	1.00	0.00
ATOM 491	C	ARG A	37	149.107	5.243	5.529	1.00	0.00
ATOM 492	O	ARG A	37	148.852	6.142	6.331	1.00	0.00
ATOM 493	CB	ARG A	37	150.240	3.041	5.877	1.00	0.00
ATOM 494	CG	ARG A	37	150.108	1.536	6.049	1.00	0.00
ATOM 495	CD	ARG A	37	149.381	1.183	7.336	1.00	0.00
ATOM 496	NE	ARG A	37	150.219	1.390	8.514	1.00	0.00
ATOM 497	CZ	ARG A	37	149.776	1.294	9.766	1.00	0.00
ATOM 498	NH1	ARG A	37	148.506	0.996	10.006	1.00	0.00
ATOM 499	NH2	ARG A	37	150.606	1.498	10.780	1.00	0.00
ATOM 500	H	ARG A	37	148.140	3.120	4.043	1.00	0.00
ATOM 501	HA	ARG A	37	148.495	3.731	6.904	1.00	0.00
ATOM 502	1HB	ARG A	37	150.725	3.232	4.932	1.00	0.00
ATOM 503	2HB	ARG A	37	150.863	3.418	6.675	1.00	0.00
ATOM 504	1HG	ARG A	37	149.555	1.135	5.213	1.00	0.00
ATOM 505	2HG	ARG A	37	151.096	1.098	6.072	1.00	0.00
ATOM 506	1HD	ARG A	37	148.501	1.804	7.419	1.00	0.00
ATOM 507	2HD	ARG A	37	149.084	0.145	7.294	1.00	0.00
ATOM 508	HE	ARG A	37	151.162	1.612	8.365	1.00	0.00

ATOM 509	1HH1	ARG	A	37	147.875	0.841	9.245	1.00	0.00
ATOM 510	2HH1	ARG	A	37	148.179	0.925	10.949	1.00	0.00
ATOM 511	1HH2	ARG	A	37	151.565	1.723	10.604	1.00	0.00
ATOM 512	2HH2	ARG	A	37	150.274	1.426	11.720	1.00	0.00
ATOM 513	N	TRP	A	38	149.570	5.476	4.305	1.00	0.00
ATOM 514	CA	TRP	A	38	149.811	6.832	3.825	1.00	0.00
ATOM 515	C	TRP	A	38	149.117	7.071	2.486	1.00	0.00
ATOM 516	O	TRP	A	38	149.194	6.244	1.578	1.00	0.00
ATOM 517	CB	TRP	A	38	151.316	7.090	3.690	1.00	0.00
ATOM 518	CG	TRP	A	38	151.645	8.370	2.979	1.00	0.00
ATOM 519	CD1	TRP	A	38	151.811	9.602	3.542	1.00	0.00
ATOM 520	CD2	TRP	A	38	151.843	8.541	1.571	1.00	0.00
ATOM 521	NE1	TRP	A	38	152.101	10.529	2.569	1.00	0.00
ATOM 522	CE2	TRP	A	38	152.125	9.902	1.351	1.00	0.00
ATOM 523	CE3	TRP	A	38	151.808	7.676	0.474	1.00	0.00
ATOM 524	CZ2	TRP	A	38	152.372	10.415	0.080	1.00	0.00
ATOM 525	CZ3	TRP	A	38	152.054	8.185	-0.786	1.00	0.00
ATOM 526	CH2	TRP	A	38	152.333	9.544	-0.975	1.00	0.00
ATOM 527	H	TRP	A	38	149.755	4.719	3.711	1.00	0.00
ATOM 528	HA	TRP	A	38	149.403	7.517	4.553	1.00	0.00
ATOM 529	1HB	TRP	A	38	151.755	7.134	4.675	1.00	0.00
ATOM 530	2HB	TRP	A	38	151.764	6.276	3.138	1.00	0.00
ATOM 531	HD1	TRP	A	38	151.725	9.805	4.599	1.00	0.00
ATOM 532	HE1	TRP	A	38	152.263	11.484	2.724	1.00	0.00
ATOM 533	HE3	TRP	A	38	151.595	6.625	0.599	1.00	0.00
ATOM 534	HZ2	TRP	A	38	152.586	11.461	-0.083	1.00	0.00
ATOM 535	HZ3	TRP	A	38	152.031	7.530	-1.645	1.00	0.00
ATOM 536	HH2	TRP	A	38	152.518	9.899	-1.979	1.00	0.00
ATOM 537	N	ILE	A	39	148.450	8.214	2.372	1.00	0.00

ATOM 538	CA	ILE A	39	147.751	8.576	1.147	1.00	0.00
ATOM 539	C	ILE A	39	148.211	9.942	0.653	1.00	0.00
ATOM 540	O	ILE A	39	147.859	10.971	1.229	1.00	0.00
ATOM 541	CB	ILE A	39	146.222	8.603	1.353	1.00	0.00
ATOM 542	CG1	ILE A	39	145.750	7.301	2.003	1.00	0.00
ATOM 543	CG2	ILE A	39	145.511	8.827	0.028	1.00	0.00
ATOM 544	CD1	ILE A	39	144.484	7.455	2.817	1.00	0.00
ATOM 545	H	ILE A	39	148.433	8.833	3.131	1.00	0.00
ATOM 546	HA	ILE A	39	147.981	7.834	0.396	1.00	0.00
ATOM 547	HB	ILE A	39	145.985	9.429	2.006	1.00	0.00
ATOM 548	1HG1	ILE A	39	145.560	6.569	1.232	1.00	0.00
ATOM 549	2HG1	ILE A	39	146.525	6.931	2.660	1.00	0.00
ATOM 550	1HG2	ILE A	39	145.606	9.864	-0.260	1.00	0.00
ATOM 551	2HG2	ILE A	39	144.466	8.577	0.133	1.00	0.00
ATOM 552	3HG2	ILE A	39	145.957	8.202	-0.731	1.00	0.00
ATOM 553	1HD1	ILE A	39	144.106	8.462	2.706	1.00	0.00
ATOM 554	2HD1	ILE A	39	144.699	7.265	3.858	1.00	0.00
ATOM 555	3HD1	ILE A	39	143.742	6.752	2.468	1.00	0.00
ATOM 556	N	GLY A	40	149.008	9.947	-0.411	1.00	0.00
ATOM 557	CA	GLY A	40	149.508	11.196	-0.952	1.00	0.00
ATOM 558	C	GLY A	40	150.119	11.035	-2.329	1.00	0.00
ATOM 559	O	GLY A	40	149.963	9.996	-2.970	1.00	0.00
ATOM 560	H	GLY A	40	149.261	9.097	-0.828	1.00	0.00
ATOM 561	1HA	GLY A	40	148.694	11.901	-1.013	1.00	0.00
ATOM 562	2HA	GLY A	40	150.257	11.588	-0.282	1.00	0.00
ATOM 563	N	GLN A	41	150.815	12.071	-2.785	1.00	0.00
ATOM 564	CA	GLN A	41	151.452	12.052	-4.094	1.00	0.00
ATOM 565	C	GLN A	41	152.919	12.468	-3.988	1.00	0.00
ATOM 566	O	GLN A	41	153.223	13.605	-3.629	1.00	0.00

ATOM 567	CB	GLN A	41	150.710	12.989	-5.046	1.00	0.00
ATOM 568	CG	GLN A	41	149.202	12.798	-5.033	1.00	0.00
ATOM 569	CD	GLN A	41	148.450	14.112	-5.103	1.00	0.00
ATOM 570	OE1	GLN A	41	148.391	14.860	-4.127	1.00	0.00
ATOM 571	NE2	GLN A	41	147.871	14.397	-6.261	1.00	0.00
ATOM 572	H	GLN A	41	150.900	12.871	-2.227	1.00	0.00
ATOM 573	HA	GLN A	41	151.396	11.045	-4.478	1.00	0.00
ATOM 574	1HB	GLN A	41	150.923	14.009	-4.767	1.00	0.00
ATOM 575	2HB	GLN A	41	151.065	12.818	-6.049	1.00	0.00
ATOM 576	1HG	GLN A	41	148.920	12.194	-5.882	1.00	0.00
ATOM 577	2HG	GLN A	41	148.924	12.288	-4.122	1.00	0.00
ATOM 578	1HE2	GLN A	41	147.960	13.751	-6.992	1.00	0.00
ATOM 579	2HE2	GLN A	41	147.378	15.240	-6.338	1.00	0.00
ATOM 580	N	PRO A	42	153.854	11.549	-4.297	1.00	0.00
ATOM 581	CA	PRO A	42	155.292	11.834	-4.231	1.00	0.00
ATOM 582	C	PRO A	42	155.691	13.017	-5.108	1.00	0.00
ATOM 583	O	PRO A	42	154.968	13.383	-6.036	1.00	0.00
ATOM 584	CB	PRO A	42	155.942	10.545	-4.744	1.00	0.00
ATOM 585	CG	PRO A	42	154.913	9.489	-4.534	1.00	0.00
ATOM 586	CD	PRO A	42	153.589	10.167	-4.733	1.00	0.00
ATOM 587	HA	PRO A	42	155.610	12.021	-3.215	1.00	0.00
ATOM 588	1HB	PRO A	42	156.187	10.656	-5.791	1.00	0.00
ATOM 589	2HB	PRO A	42	156.839	10.341	-4.178	1.00	0.00
ATOM 590	1HG	PRO A	42	155.044	8.698	-5.257	1.00	0.00
ATOM 591	2HG	PRO A	42	154.987	9.099	-3.530	1.00	0.00
ATOM 592	1HD	PRO A	42	153.303	10.138	-5.775	1.00	0.00
ATOM 593	2HD	PRO A	42	152.831	9.706	-4.117	1.00	0.00
ATOM 594	N	PRO A	43	156.851	13.631	-4.826	1.00	0.00
ATOM 595	CA	PRO A	43	157.345	14.777	-5.595	1.00	0.00

ATOM 596	C	PRO A	43	157.832	14.376	-6.981	1.00	0.00
ATOM 597	O	PRO A	43	159.014	14.095	-7.178	1.00	0.00
ATOM 598	CB	PRO A	43	158.510	15.294	-4.751	1.00	0.00
ATOM 599	CG	PRO A	43	158.989	14.102	-3.998	1.00	0.00
ATOM 600	CD	PRO A	43	157.772	13.257	-3.736	1.00	0.00
ATOM 601	HA	PRO A	43	156.592	15.546	-5.686	1.00	0.00
ATOM 602	1HB	PRO A	43	159.278	15.687	-5.401	1.00	0.00
ATOM 603	2HB	PRO A	43	158.161	16.068	-4.084	1.00	0.00
ATOM 604	1HG	PRO A	43	159.704	13.554	-4.595	1.00	0.00
ATOM 605	2HG	PRO A	43	159.438	14.412	-3.066	1.00	0.00
ATOM 606	1HD	PRO A	43	158.024	12.208	-3.788	1.00	0.00
ATOM 607	2HD	PRO A	43	157.347	13.497	-2.773	1.00	0.00
ATOM 608	N	GLY A	44	156.914	14.350	-7.941	1.00	0.00
ATOM 609	CA	GLY A	44	157.273	13.982	-9.297	1.00	0.00
ATOM 610	C	GLY A	44	156.084	13.491	-10.098	1.00	0.00
ATOM 611	O	GLY A	44	155.844	13.957	-11.212	1.00	0.00
ATOM 612	H	GLY A	44	155.987	14.583	-7.727	1.00	0.00
ATOM 613	1HA	GLY A	44	157.695	14.843	-9.792	1.00	0.00
ATOM 614	2HA	GLY A	44	158.016	13.199	-9.262	1.00	0.00
ATOM 615	N	LEU A	45	155.339	12.549	-9.532	1.00	0.00
ATOM 616	CA	LEU A	45	154.169	11.997	-10.204	1.00	0.00
ATOM 617	C	LEU A	45	152.914	12.208	-9.366	1.00	0.00
ATOM 618	O	LEU A	45	152.764	11.612	-8.299	1.00	0.00
ATOM 619	CB	LEU A	45	154.369	10.506	-10.478	1.00	0.00
ATOM 620	CG	LEU A	45	154.847	9.684	-9.278	1.00	0.00
ATOM 621	CD1	LEU A	45	154.479	8.217	-9.453	1.00	0.00
ATOM 622	CD2	LEU A	45	156.350	9.845	-9.088	1.00	0.00
ATOM 623	H	LEU A	45	155.580	12.218	-8.639	1.00	0.00
ATOM 624	HA	LEU A	45	154.051	12.515	-11.144	1.00	0.00

ATOM 625	1HB	LEU	A	45	153.430	10.094	-10.818	1.00	0.00
ATOM 626	2HB	LEU	A	45	155.096	10.401	-11.270	1.00	0.00
ATOM 627	HG	LEU	A	45	154.357	10.046	-8.387	1.00	0.00
ATOM 628	1HD1	LEU	A	45	153.735	7.943	-8.719	1.00	0.00
ATOM 629	2HD1	LEU	A	45	155.359	7.605	-9.316	1.00	0.00
ATOM 630	3HD1	LEU	A	45	154.083	8.059	-10.445	1.00	0.00
ATOM 631	1HD2	LEU	A	45	156.708	10.657	-9.704	1.00	0.00
ATOM 632	2HD2	LEU	A	45	156.849	8.930	-9.373	1.00	0.00
ATOM 633	3HD2	LEU	A	45	156.560	10.060	-8.051	1.00	0.00
ATOM 634	N	ASN	A	46	152.013	13.054	-9.852	1.00	0.00
ATOM 635	CA	ASN	A	46	150.774	13.330	-9.134	1.00	0.00
ATOM 636	C	ASN	A	46	149.823	12.143	-9.238	1.00	0.00
ATOM 637	O	ASN	A	46	149.247	11.884	-10.295	1.00	0.00
ATOM 638	CB	ASN	A	46	150.109	14.588	-9.696	1.00	0.00
ATOM 639	CG	ASN	A	46	148.854	14.969	-8.936	1.00	0.00
ATOM 640	OD1	ASN	A	46	147.885	14.212	-8.894	1.00	0.00
ATOM 641	ND2	ASN	A	46	148.867	16.151	-8.329	1.00	0.00
ATOM 642	H	ASN	A	46	152.183	13.500	-10.707	1.00	0.00
ATOM 643	HA	ASN	A	46	151.019	13.493	-8.096	1.00	0.00
ATOM 644	1HB	ASN	A	46	150.804	15.411	-9.641	1.00	0.00
ATOM 645	2HB	ASN	A	46	149.843	14.415	-10.730	1.00	0.00
ATOM 646	1HD2	ASN	A	46	149.674	16.702	-8.407	1.00	0.00
ATOM 647	2HD2	ASN	A	46	148.069	16.424	-7.831	1.00	0.00
ATOM 648	N	GLU	A	47	149.664	11.426	-8.131	1.00	0.00
ATOM 649	CA	GLU	A	47	148.783	10.265	-8.089	1.00	0.00
ATOM 650	C	GLU	A	47	148.535	9.827	-6.650	1.00	0.00
ATOM 651	O	GLU	A	47	149.473	9.496	-5.924	1.00	0.00
ATOM 652	CB	GLU	A	47	149.384	9.107	-8.891	1.00	0.00
ATOM 653	CG	GLU	A	47	150.894	8.984	-8.752	1.00	0.00

ATOM 654	CD	GLU A	47	151.508	8.112	-9.829	1.00	0.00
ATOM 655	OE1	GLU A	47	151.735	8.621	-10.948	1.00	0.00
ATOM 656	OE2	GLU A	47	151.761	6.920	-9.557	1.00	0.00
ATOM 657	H	GLU A	47	150.151	11.684	-7.323	1.00	0.00
ATOM 658	HA	GLU A	47	147.841	10.548	-8.533	1.00	0.00
ATOM 659	1HB	GLU A	47	148.938	8.183	-8.556	1.00	0.00
ATOM 660	2HB	GLU A	47	149.152	9.251	-9.936	1.00	0.00
ATOM 661	1HG	GLU A	47	151.331	9.968	-8.815	1.00	0.00
ATOM 662	2HG	GLU A	47	151.122	8.552	-7.788	1.00	0.00
ATOM 663	N	VAL A	48	147.271	9.818	-6.242	1.00	0.00
ATOM 664	CA	VAL A	48	146.916	9.408	-4.890	1.00	0.00
ATOM 665	C	VAL A	48	147.256	7.940	-4.667	1.00	0.00
ATOM 666	O	VAL A	48	146.521	7.050	-5.094	1.00	0.00
ATOM 667	CB	VAL A	48	145.417	9.627	-4.610	1.00	0.00
ATOM 668	CG1	VAL A	48	145.108	9.388	-3.139	1.00	0.00
ATOM 669	CG2	VAL A	48	144.992	11.025	-5.031	1.00	0.00
ATOM 670	H	VAL A	48	146.563	10.087	-6.865	1.00	0.00
ATOM 671	HA	VAL A	48	147.485	10.010	-4.197	1.00	0.00
ATOM 672	HB	VAL A	48	144.854	8.911	-5.192	1.00	0.00
ATOM 673	1HG1	VAL A	48	145.930	9.745	-2.536	1.00	0.00
ATOM 674	2HG1	VAL A	48	144.967	8.332	-2.967	1.00	0.00
ATOM 675	3HG1	VAL A	48	144.208	9.921	-2.869	1.00	0.00
ATOM 676	1HG2	VAL A	48	145.845	11.687	-4.994	1.00	0.00
ATOM 677	2HG2	VAL A	48	144.227	11.387	-4.361	1.00	0.00
ATOM 678	3HG2	VAL A	48	144.604	10.994	-6.038	1.00	0.00
ATOM 679	N	LEU A	49	148.379	7.692	-4.002	1.00	0.00
ATOM 680	CA	LEU A	49	148.821	6.331	-3.729	1.00	0.00
ATOM 681	C	LEU A	49	148.666	5.997	-2.251	1.00	0.00
ATOM 682	O	LEU A	49	149.298	6.615	-1.394	1.00	0.00

ATOM 683	CB	LEU A	49	150.279	6.151	-4.154	1.00	0.00
ATOM 684	CG	LEU A	49	150.574	6.496	-5.614	1.00	0.00
ATOM 685	CD1	LEU A	49	152.003	6.995	-5.767	1.00	0.00
ATOM 686	CD2	LEU A	49	150.333	5.286	-6.505	1.00	0.00
ATOM 687	H	LEU A	49	148.926	8.443	-3.689	1.00	0.00
ATOM 688	HA	LEU A	49	148.202	5.660	-4.304	1.00	0.00
ATOM 689	1HB	LEU A	49	150.895	6.778	-3.526	1.00	0.00
ATOM 690	2HB	LEU A	49	150.556	5.121	-3.988	1.00	0.00
ATOM 691	HG	LEU A	49	149.909	7.285	-5.934	1.00	0.00
ATOM 692	1HD1	LEU A	49	152.628	6.533	-5.017	1.00	0.00
ATOM 693	2HD1	LEU A	49	152.024	8.068	-5.641	1.00	0.00
ATOM 694	3HD1	LEU A	49	152.370	6.741	-6.749	1.00	0.00
ATOM 695	1HD2	LEU A	49	149.956	5.614	-7.463	1.00	0.00
ATOM 696	2HD2	LEU A	49	149.610	4.634	-6.038	1.00	0.00
ATOM 697	3HD2	LEU A	49	151.261	4.752	-6.648	1.00	0.00
ATOM 698	N	ALA A	50	147.820	5.017	-1.958	1.00	0.00
ATOM 699	CA	ALA A	50	147.584	4.604	-0.582	1.00	0.00
ATOM 700	C	ALA A	50	148.522	3.470	-0.181	1.00	0.00
ATOM 701	O	ALA A	50	148.448	2.368	-0.726	1.00	0.00
ATOM 702	CB	ALA A	50	146.134	4.182	-0.398	1.00	0.00
ATOM 703	H	ALA A	50	147.344	4.561	-2.683	1.00	0.00
ATOM 704	HA	ALA A	50	147.771	5.456	0.055	1.00	0.00
ATOM 705	1HB	ALA A	50	146.082	3.370	0.313	1.00	0.00
ATOM 706	2HB	ALA A	50	145.730	3.857	-1.345	1.00	0.00
ATOM 707	3HB	ALA A	50	145.559	5.019	-0.030	1.00	0.00
ATOM 708	N	GLY A	51	149.405	3.747	0.773	1.00	0.00
ATOM 709	CA	GLY A	51	150.345	2.741	1.230	1.00	0.00
ATOM 710	C	GLY A	51	149.671	1.632	2.013	1.00	0.00
ATOM 711	O	GLY A	51	149.179	1.854	3.120	1.00	0.00

ATOM 712	H	GLY A	51	149.417	4.643	1.171	1.00	0.00
ATOM 713	1HA	GLY A	51	150.839	2.311	0.372	1.00	0.00
ATOM 714	2HA	GLY A	51	151.084	3.214	1.860	1.00	0.00
ATOM 715	N	LEU A	52	149.648	0.434	1.439	1.00	0.00
ATOM 716	CA	LEU A	52	149.030	-0.714	2.091	1.00	0.00
ATOM 717	C	LEU A	52	150.084	-1.612	2.730	1.00	0.00
ATOM 718	O	LEU A	52	151.068	-1.983	2.091	1.00	0.00
ATOM 719	CB	LEU A	52	148.203	-1.516	1.084	1.00	0.00
ATOM 720	CG	LEU A	52	146.961	-0.800	0.552	1.00	0.00
ATOM 721	CD1	LEU A	52	146.446	-1.487	-0.703	1.00	0.00
ATOM 722	CD2	LEU A	52	145.877	-0.751	1.619	1.00	0.00
ATOM 723	H	LEU A	52	150.057	0.319	0.556	1.00	0.00
ATOM 724	HA	LEU A	52	148.375	-0.342	2.865	1.00	0.00
ATOM 725	1HB	LEU A	52	148.838	-1.763	0.245	1.00	0.00
ATOM 726	2HB	LEU A	52	147.888	-2.433	1.558	1.00	0.00
ATOM 727	HG	LEU A	52	147.221	0.216	0.293	1.00	0.00
ATOM 728	1HD1	LEU A	52	145.683	-0.874	-1.162	1.00	0.00
ATOM 729	2HD1	LEU A	52	146.027	-2.448	-0.441	1.00	0.00
ATOM 730	3HD1	LEU A	52	147.261	-1.627	-1.397	1.00	0.00
ATOM 731	1HD2	LEU A	52	145.189	0.050	1.397	1.00	0.00
ATOM 732	2HD2	LEU A	52	146.330	-0.582	2.584	1.00	0.00
ATOM 733	3HD2	LEU A	52	145.343	-1.691	1.633	1.00	0.00
ATOM 734	N	GLU A	53	149.872	-1.957	3.997	1.00	0.00
ATOM 735	CA	GLU A	53	150.804	-2.811	4.723	1.00	0.00
ATOM 736	C	GLU A	53	150.332	-4.261	4.715	1.00	0.00
ATOM 737	O	GLU A	53	149.326	-4.600	5.337	1.00	0.00
ATOM 738	CB	GLU A	53	150.960	-2.320	6.164	1.00	0.00
ATOM 739	CG	GLU A	53	151.942	-3.142	6.984	1.00	0.00
ATOM 740	CD	GLU A	53	151.412	-3.483	8.361	1.00	0.00

ATOM 741	OE1	GLU A	53	150.983	-2.556	9.079	1.00	0.00
ATOM 742	OE2	GLU A	53	151.424	-4.679	8.723	1.00	0.00
ATOM 743	H	GLU A	53	149.068	-1.629	4.453	1.00	0.00
ATOM 744	HA	GLU A	53	151.761	-2.754	4.228	1.00	0.00
ATOM 745	1HB	GLU A	53	151.304	-1.297	6.149	1.00	0.00
ATOM 746	2HB	GLU A	53	149.996	-2.360	6.652	1.00	0.00
ATOM 747	1HG	GLU A	53	152.150	-4.062	6.456	1.00	0.00
ATOM 748	2HG	GLU A	53	152.857	-2.578	7.095	1.00	0.00
ATOM 749	N	LEU A	54	151.066	-5.113	4.006	1.00	0.00
ATOM 750	CA	LEU A	54	150.722	-6.527	3.917	1.00	0.00
ATOM 751	C	LEU A	54	151.001	-7.240	5.237	1.00	0.00
ATOM 752	O	LEU A	54	152.072	-7.083	5.824	1.00	0.00
ATOM 753	CB	LEU A	54	151.510	-7.195	2.788	1.00	0.00
ATOM 754	CG	LEU A	54	151.446	-6.474	1.440	1.00	0.00
ATOM 755	CD1	LEU A	54	152.653	-6.828	0.587	1.00	0.00
ATOM 756	CD2	LEU A	54	150.156	-6.822	0.713	1.00	0.00
ATOM 757	H	LEU A	54	151.857	-4.782	3.532	1.00	0.00
ATOM 758	HA	LEU A	54	149.668	-6.598	3.699	1.00	0.00
ATOM 759	1HB	LEU A	54	152.546	-7.258	3.089	1.00	0.00
ATOM 760	2HB	LEU A	54	151.129	-8.195	2.654	1.00	0.00
ATOM 761	HG	LEU A	54	151.458	-5.407	1.609	1.00	0.00
ATOM 762	1HD1	LEU A	54	152.792	-7.899	0.586	1.00	0.00
ATOM 763	2HD1	LEU A	54	153.533	-6.352	0.993	1.00	0.00
ATOM 764	3HD1	LEU A	54	152.493	-6.485	-0.425	1.00	0.00
ATOM 765	1HD2	LEU A	54	149.838	-5.977	0.118	1.00	0.00
ATOM 766	2HD2	LEU A	54	149.389	-7.064	1.434	1.00	0.00
ATOM 767	3HD2	LEU A	54	150.324	-7.672	0.068	1.00	0.00
ATOM 768	N	GLU A	55	150.030	-8.020	5.699	1.00	0.00
ATOM 769	CA	GLU A	55	150.170	-8.755	6.951	1.00	0.00

ATOM 770	C	GLU A	55	151.279	-9.798	6.849	1.00	0.00
ATOM 771	O	GLU A	55	151.960	-10.092	7.832	1.00	0.00
ATOM 772	CB	GLU A	55	148.849	-9.435	7.317	1.00	0.00
ATOM 773	CG	GLU A	55	147.932	-8.564	8.162	1.00	0.00
ATOM 774	CD	GLU A	55	147.895	-8.998	9.615	1.00	0.00
ATOM 775	OE1	GLU A	55	147.569	-10.174	9.877	1.00	0.00
ATOM 776	OE2	GLU A	55	148.192	-8.159	10.492	1.00	0.00
ATOM 777	H	GLU A	55	149.199	-8.103	5.186	1.00	0.00
ATOM 778	HA	GLU A	55	150.427	-8.047	7.724	1.00	0.00
ATOM 779	1HB	GLU A	55	148.326	-9.692	6.408	1.00	0.00
ATOM 780	2HB	GLU A	55	149.062	-10.337	7.868	1.00	0.00
ATOM 781	1HG	GLU A	55	148.282	-7.544	8.117	1.00	0.00
ATOM 782	2HG	GLU A	55	146.932	-8.620	7.759	1.00	0.00
ATOM 783	N	ASP A	56	151.454	-10.353	5.655	1.00	0.00
ATOM 784	CA	ASP A	56	152.481	-11.364	5.426	1.00	0.00
ATOM 785	C	ASP A	56	153.824	-10.713	5.113	1.00	0.00
ATOM 786	O	ASP A	56	153.897	-9.750	4.351	1.00	0.00
ATOM 787	CB	ASP A	56	152.070	-12.287	4.279	1.00	0.00
ATOM 788	CG	ASP A	56	150.961	-13.243	4.674	1.00	0.00
ATOM 789	OD1	ASP A	56	150.877	-13.592	5.871	1.00	0.00
ATOM 790	OD2	ASP A	56	150.177	-13.642	3.787	1.00	0.00
ATOM 791	H	ASP A	56	150.880	-10.078	4.910	1.00	0.00
ATOM 792	HA	ASP A	56	152.578	-11.948	6.329	1.00	0.00
ATOM 793	1HB	ASP A	56	151.724	-11.689	3.448	1.00	0.00
ATOM 794	2HB	ASP A	56	152.927	-12.867	3.966	1.00	0.00
ATOM 795	N	GLU A	57	154.887	-11.245	5.710	1.00	0.00
ATOM 796	CA	GLU A	57	156.229	-10.716	5.495	1.00	0.00
ATOM 797	C	GLU A	57	156.867	-11.340	4.258	1.00	0.00
ATOM 798	O	GLU A	57	157.811	-12.126	4.362	1.00	0.00

ATOM 799	CB	GLU A	57	157.103	-10.974	6.724	1.00	0.00
ATOM 800	CG	GLU A	57	157.075	-9.844	7.739	1.00	0.00
ATOM 801	CD	GLU A	57	158.336	-9.784	8.580	1.00	0.00
ATOM 802	OE1	GLU A	57	159.432	-9.656	7.997	1.00	0.00
ATOM 803	OE2	GLU A	57	158.225	-9.864	9.822	1.00	0.00
ATOM 804	H	GLU A	57	154.765	-12.012	6.309	1.00	0.00
ATOM 805	HA	GLU A	57	156.143	-9.650	5.343	1.00	0.00
ATOM 806	1HB	GLU A	57	156.762	-11.876	7.212	1.00	0.00
ATOM 807	2HB	GLU A	57	158.124	-11.114	6.402	1.00	0.00
ATOM 808	1HG	GLU A	57	156.967	-8.907	7.214	1.00	0.00
ATOM 809	2HG	GLU A	57	156.229	-9.987	8.395	1.00	0.00
ATOM 810	N	CYS A	58	156.349	-10.983	3.088	1.00	0.00
ATOM 811	CA	CYS A	58	156.869	-11.508	1.830	1.00	0.00
ATOM 812	C	CYS A	58	158.107	-10.734	1.389	1.00	0.00
ATOM 813	O	CYS A	58	158.053	-9.521	1.183	1.00	0.00
ATOM 814	CB	CYS A	58	155.795	-11.438	0.743	1.00	0.00
ATOM 815	SG	CYS A	58	155.816	-12.835	-0.405	1.00	0.00
ATOM 816	H	CYS A	58	155.599	-10.353	3.069	1.00	0.00
ATOM 817	HA	CYS A	58	157.141	-12.540	1.989	1.00	0.00
ATOM 818	1HB	CYS A	58	154.822	-11.412	1.209	1.00	0.00
ATOM 819	2HB	CYS A	58	155.937	-10.536	0.165	1.00	0.00
ATOM 820	HG	CYS A	58	156.542	-13.413	-0.156	1.00	0.00
ATOM 821	N	ALA A	59	159.222	-11.443	1.246	1.00	0.00
ATOM 822	CA	ALA A	59	160.474	-10.823	0.830	1.00	0.00
ATOM 823	C	ALA A	59	160.347	-10.208	-0.559	1.00	0.00
ATOM 824	O	ALA A	59	160.243	-10.921	-1.558	1.00	0.00
ATOM 825	CB	ALA A	59	161.602	-11.842	0.857	1.00	0.00
ATOM 826	H	ALA A	59	159.202	-12.406	1.425	1.00	0.00
ATOM 827	HA	ALA A	59	160.710	-10.041	1.538	1.00	0.00

ATOM 828	1HB	ALA	A	59	161.800	-12.134	1.878	1.00	0.00
ATOM 829	2HB	ALA	A	59	162.492	-11.406	0.428	1.00	0.00
ATOM 830	3HB	ALA	A	59	161.315	-12.712	0.284	1.00	0.00
ATOM 831	N	GLY	A	60	160.353	-8.880	-0.616	1.00	0.00
ATOM 832	CA	GLY	A	60	160.238	-8.192	-1.888	1.00	0.00
ATOM 833	C	GLY	A	60	159.723	-6.774	-1.737	1.00	0.00
ATOM 834	O	GLY	A	60	160.028	-5.905	-2.553	1.00	0.00
ATOM 835	H	GLY	A	60	160.438	-8.363	0.212	1.00	0.00
ATOM 836	1HA	GLY	A	60	161.210	-8.161	-2.359	1.00	0.00
ATOM 837	2HA	GLY	A	60	159.560	-8.743	-2.523	1.00	0.00
ATOM 838	N	CYS	A	61	158.940	-6.540	-0.689	1.00	0.00
ATOM 839	CA	CYS	A	61	158.382	-5.218	-0.432	1.00	0.00
ATOM 840	C	CYS	A	61	159.349	-4.367	0.384	1.00	0.00
ATOM 841	O	CYS	A	61	160.444	-4.813	0.728	1.00	0.00
ATOM 842	CB	CYS	A	61	157.046	-5.340	0.305	1.00	0.00
ATOM 843	SG	CYS	A	61	155.819	-6.353	-0.555	1.00	0.00
ATOM 844	H	CYS	A	61	158.733	-7.274	-0.073	1.00	0.00
ATOM 845	HA	CYS	A	61	158.214	-4.739	-1.384	1.00	0.00
ATOM 846	1HB	CYS	A	61	157.217	-5.785	1.273	1.00	0.00
ATOM 847	2HB	CYS	A	61	156.625	-4.354	0.436	1.00	0.00
ATOM 848	HG	CYS	A	61	154.998	-5.857	-0.590	1.00	0.00
ATOM 849	N	THR	A	62	158.939	-3.141	0.690	1.00	0.00
ATOM 850	CA	THR	A	62	159.769	-2.228	1.465	1.00	0.00
ATOM 851	C	THR	A	62	159.315	-2.182	2.920	1.00	0.00
ATOM 852	O	THR	A	62	158.402	-2.904	3.318	1.00	0.00
ATOM 853	CB	THR	A	62	159.722	-0.823	0.860	1.00	0.00
ATOM 854	OG1	THR	A	62	158.393	-0.336	0.828	1.00	0.00
ATOM 855	CG2	THR	A	62	160.268	-0.762	-0.551	1.00	0.00
ATOM 856	H	THR	A	62	158.055	-2.844	0.386	1.00	0.00

ATOM 857	HA	THR A	62	160.785	-2.592	1.429	1.00	0.00
ATOM 858	HB	THR A	62	160.313	-0.159	1.472	1.00	0.00
ATOM 859	HG1	THR A	62	157.985	-0.460	1.688	1.00	0.00
ATOM 860	1HG2	THR A	62	161.024	-1.522	-0.678	1.00	0.00
ATOM 861	2HG2	THR A	62	160.702	0.210	-0.727	1.00	0.00
ATOM 862	3HG2	THR A	62	159.466	-0.930	-1.254	1.00	0.00
ATOM 863	N	ASP A	63	159.959	-1.327	3.709	1.00	0.00
ATOM 864	CA	ASP A	63	159.621	-1.186	5.121	1.00	0.00
ATOM 865	C	ASP A	63	158.989	0.174	5.394	1.00	0.00
ATOM 866	O	ASP A	63	159.144	0.735	6.479	1.00	0.00
ATOM 867	CB	ASP A	63	160.870	-1.365	5.985	1.00	0.00
ATOM 868	CG	ASP A	63	161.964	-0.376	5.632	1.00	0.00
ATOM 869	OD1	ASP A	63	161.797	0.826	5.928	1.00	0.00
ATOM 870	OD2	ASP A	63	162.989	-0.804	5.059	1.00	0.00
ATOM 871	H	ASP A	63	160.679	-0.778	3.333	1.00	0.00
ATOM 872	HA	ASP A	63	158.908	-1.958	5.370	1.00	0.00
ATOM 873	1HB	ASP A	63	160.605	-1.223	7.023	1.00	0.00
ATOM 874	2HB	ASP A	63	161.255	-2.364	5.849	1.00	0.00
ATOM 875	N	GLY A	64	158.275	0.699	4.404	1.00	0.00
ATOM 876	CA	GLY A	64	157.630	1.990	4.558	1.00	0.00
ATOM 877	C	GLY A	64	158.349	3.092	3.805	1.00	0.00
ATOM 878	O	GLY A	64	158.370	4.242	4.245	1.00	0.00
ATOM 879	H	GLY A	64	158.187	0.207	3.561	1.00	0.00
ATOM 880	1HA	GLY A	64	156.617	1.919	4.190	1.00	0.00
ATOM 881	2HA	GLY A	64	157.603	2.243	5.607	1.00	0.00
ATOM 882	N	THR A	65	158.940	2.740	2.668	1.00	0.00
ATOM 883	CA	THR A	65	159.664	3.708	1.852	1.00	0.00
ATOM 884	C	THR A	65	159.260	3.594	0.385	1.00	0.00
ATOM 885	O	THR A	65	159.441	2.549	-0.239	1.00	0.00

ATOM 886	CB	THR A	65	161.172	3.502	1.996	1.00	0.00
ATOM 887	OG1	THR A	65	161.477	2.126	2.147	1.00	0.00
ATOM 888	CG2	THR A	65	161.767	4.236	3.177	1.00	0.00
ATOM 889	H	THR A	65	158.888	1.808	2.369	1.00	0.00
ATOM 890	HA	THR A	65	159.410	4.696	2.207	1.00	0.00
ATOM 891	HB	THR A	65	161.661	3.861	1.101	1.00	0.00
ATOM 892	HG1	THR A	65	161.207	1.650	1.359	1.00	0.00
ATOM 893	1HG2	THR A	65	162.809	4.447	2.982	1.00	0.00
ATOM 894	2HG2	THR A	65	161.683	3.623	4.062	1.00	0.00
ATOM 895	3HG2	THR A	65	161.234	5.163	3.329	1.00	0.00
ATOM 896	N	PHE A	66	158.714	4.677	-0.159	1.00	0.00
ATOM 897	CA	PHE A	66	158.287	4.699	-1.553	1.00	0.00
ATOM 898	C	PHE A	66	159.157	5.645	-2.375	1.00	0.00
ATOM 899	O	PHE A	66	159.050	6.865	-2.253	1.00	0.00
ATOM 900	CB	PHE A	66	156.820	5.122	-1.652	1.00	0.00
ATOM 901	CG	PHE A	66	156.213	4.872	-3.003	1.00	0.00
ATOM 902	CD1	PHE A	66	156.173	3.592	-3.534	1.00	0.00
ATOM 903	CD2	PHE A	66	155.682	5.917	-3.743	1.00	0.00
ATOM 904	CE1	PHE A	66	155.615	3.359	-4.776	1.00	0.00
ATOM 905	CE2	PHE A	66	155.123	5.690	-4.987	1.00	0.00
ATOM 906	CZ	PHE A	66	155.089	4.409	-5.503	1.00	0.00
ATOM 907	H	PHE A	66	158.597	5.480	0.389	1.00	0.00
ATOM 908	HA	PHE A	66	158.391	3.699	-1.948	1.00	0.00
ATOM 909	1HB	PHE A	66	156.244	4.573	-0.923	1.00	0.00
ATOM 910	2HB	PHE A	66	156.743	6.179	-1.443	1.00	0.00
ATOM 911	HD1	PHE A	66	156.583	2.770	-2.965	1.00	0.00
ATOM 912	HD2	PHE A	66	155.708	6.918	-3.340	1.00	0.00
ATOM 913	HE1	PHE A	66	155.589	2.357	-5.178	1.00	0.00
ATOM 914	HE2	PHE A	66	154.712	6.513	-5.553	1.00	0.00

ATOM 915	HZ	PHE A	66	154.652	4.230	-6.475	1.00	0.00
ATOM 916	N	ARG A	67	160.018	5.073	-3.210	1.00	0.00
ATOM 917	CA	ARG A	67	160.908	5.866	-4.052	1.00	0.00
ATOM 918	C	ARG A	67	161.832	6.733	-3.202	1.00	0.00
ATOM 919	O	ARG A	67	162.115	7.879	-3.548	1.00	0.00
ATOM 920	CB	ARG A	67	160.094	6.745	-5.003	1.00	0.00
ATOM 921	CG	ARG A	67	158.971	6.002	-5.708	1.00	0.00
ATOM 922	CD	ARG A	67	158.778	6.502	-7.131	1.00	0.00
ATOM 923	NE	ARG A	67	158.252	5.461	-8.011	1.00	0.00
ATOM 924	CZ	ARG A	67	158.319	5.509	-9.339	1.00	0.00
ATOM 925	NH1	ARG A	67	158.886	6.546	-9.944	1.00	0.00
ATOM 926	NH2	ARG A	67	157.815	4.520	-10.064	1.00	0.00
ATOM 927	H	ARG A	67	160.057	4.095	-3.262	1.00	0.00
ATOM 928	HA	ARG A	67	161.509	5.182	-4.633	1.00	0.00
ATOM 929	1HB	ARG A	67	159.660	7.558	-4.440	1.00	0.00
ATOM 930	2HB	ARG A	67	160.756	7.151	-5.754	1.00	0.00
ATOM 931	1HG	ARG A	67	159.210	4.950	-5.737	1.00	0.00
ATOM 932	2HG	ARG A	67	158.053	6.149	-5.157	1.00	0.00
ATOM 933	1HD	ARG A	67	158.087	7.331	-7.117	1.00	0.00
ATOM 934	2HD	ARG A	67	159.732	6.836	-7.513	1.00	0.00
ATOM 935	HE	ARG A	67	157.828	4.684	-7.590	1.00	0.00
ATOM 936	1HH1	ARG A	67	159.267	7.295	-9.404	1.00	0.00
ATOM 937	2HH1	ARG A	67	158.933	6.577	-10.943	1.00	0.00
ATOM 938	1HH2	ARG A	67	157.388	3.737	-9.614	1.00	0.00
ATOM 939	2HH2	ARG A	67	157.865	4.557	-11.063	1.00	0.00
ATOM 940	N	GLY A	68	162.297	6.177	-2.088	1.00	0.00
ATOM 941	CA	GLY A	68	163.183	6.913	-1.207	1.00	0.00
ATOM 942	C	GLY A	68	162.472	8.035	-0.476	1.00	0.00
ATOM 943	O	GLY A	68	163.086	9.043	-0.124	1.00	0.00

ATOM 944	H	GLY A	68	162.037	5.259	-1.863	1.00	0.00
ATOM 945	1HA	GLY A	68	163.599	6.231	-0.480	1.00	0.00
ATOM 946	2HA	GLY A	68	163.988	7.333	-1.792	1.00	0.00
ATOM 947	N	THR A	69	161.174	7.861	-0.247	1.00	0.00
ATOM 948	CA	THR A	69	160.378	8.867	0.445	1.00	0.00
ATOM 949	C	THR A	69	159.605	8.245	1.604	1.00	0.00
ATOM 950	O	THR A	69	158.505	7.724	1.420	1.00	0.00
ATOM 951	CB	THR A	69	159.408	9.539	-0.528	1.00	0.00
ATOM 952	OG1	THR A	69	160.027	9.757	-1.782	1.00	0.00
ATOM 953	CG2	THR A	69	158.891	10.872	-0.032	1.00	0.00
ATOM 954	H	THR A	69	160.742	7.036	-0.553	1.00	0.00
ATOM 955	HA	THR A	69	161.054	9.612	0.838	1.00	0.00
ATOM 956	HB	THR A	69	158.557	8.890	-0.677	1.00	0.00
ATOM 957	HG1	THR A	69	159.364	10.012	-2.427	1.00	0.00
ATOM 958	1HG2	THR A	69	158.356	11.368	-0.828	1.00	0.00
ATOM 959	2HG2	THR A	69	159.722	11.486	0.281	1.00	0.00
ATOM 960	3HG2	THR A	69	158.227	10.712	0.804	1.00	0.00
ATOM 961	N	ARG A	70	160.189	8.301	2.796	1.00	0.00
ATOM 962	CA	ARG A	70	159.554	7.743	3.985	1.00	0.00
ATOM 963	C	ARG A	70	158.220	8.426	4.262	1.00	0.00
ATOM 964	O	ARG A	70	158.126	9.654	4.255	1.00	0.00
ATOM 965	CB	ARG A	70	160.476	7.888	5.198	1.00	0.00
ATOM 966	CG	ARG A	70	159.901	7.294	6.472	1.00	0.00
ATOM 967	CD	ARG A	70	160.291	8.113	7.693	1.00	0.00
ATOM 968	NE	ARG A	70	161.632	7.783	8.169	1.00	0.00
ATOM 969	CZ	ARG A	70	162.308	8.518	9.049	1.00	0.00
ATOM 970	NH1	ARG A	70	161.773	9.625	9.550	1.00	0.00
ATOM 971	NH2	ARG A	70	163.523	8.145	9.429	1.00	0.00
ATOM 972	H	ARG A	70	161.067	8.729	2.880	1.00	0.00

ATOM 973	HA	ARG A	70	159.377	6.693	3.803	1.00	0.00
ATOM 974	1HB	ARG A	70	161.412	7.393	4.985	1.00	0.00
ATOM 975	2HB	ARG A	70	160.665	8.938	5.367	1.00	0.00
ATOM 976	1HG	ARG A	70	158.824	7.273	6.395	1.00	0.00
ATOM 977	2HG	ARG A	70	160.276	6.288	6.591	1.00	0.00
ATOM 978	1HD	ARG A	70	160.259	9.161	7.433	1.00	0.00
ATOM 979	2HD	ARG A	70	159.580	7.918	8.483	1.00	0.00
ATOM 980	HE	ARG A	70	162.051	6.971	7.815	1.00	0.00
ATOM 981	1HH1	ARG A	70	160.858	9.910	9.268	1.00	0.00
ATOM 982	2HH1	ARG A	70	162.286	10.173	10.210	1.00	0.00
ATOM 983	1HH2	ARG A	70	163.931	7.313	9.054	1.00	0.00
ATOM 984	2HH2	ARG A	70	164.031	8.698	10.089	1.00	0.00
ATOM 985	N	TYR A	71	157.189	7.624	4.505	1.00	0.00
ATOM 986	CA	TYR A	71	155.858	8.151	4.785	1.00	0.00
ATOM 987	C	TYR A	71	155.368	7.691	6.154	1.00	0.00
ATOM 988	O	TYR A	71	154.789	8.471	6.911	1.00	0.00
ATOM 989	CB	TYR A	71	154.872	7.707	3.703	1.00	0.00
ATOM 990	CG	TYR A	71	155.088	8.391	2.370	1.00	0.00
ATOM 991	CD1	TYR A	71	155.239	9.770	2.293	1.00	0.00
ATOM 992	CD2	TYR A	71	155.141	7.658	1.192	1.00	0.00
ATOM 993	CE1	TYR A	71	155.435	10.399	1.078	1.00	0.00
ATOM 994	CE2	TYR A	71	155.337	8.279	-0.026	1.00	0.00
ATOM 995	CZ	TYR A	71	155.484	9.649	-0.078	1.00	0.00
ATOM 996	OH	TYR A	71	155.680	10.271	-1.290	1.00	0.00
ATOM 997	H	TYR A	71	157.326	6.653	4.496	1.00	0.00
ATOM 998	HA	TYR A	71	155.921	9.229	4.782	1.00	0.00
ATOM 999	1HB	TYR A	71	154.973	6.643	3.548	1.00	0.00
ATOM 1000	2HB	TYR A	71	153.867	7.926	4.030	1.00	0.00
ATOM 1001	HD1	TYR A	71	155.200	10.354	3.200	1.00	0.00

ATOM 1002	HD2	TYR A	71	155.024	6.585	1.236	1.00	0.00
ATOM 1003	HE1	TYR A	71	155.551	11.472	1.037	1.00	0.00
ATOM 1004	HE2	TYR A	71	155.375	7.691	-0.932	1.00	0.00
ATOM 1005	HH	TYR A	71	154.899	10.159	-1.837	1.00	0.00
ATOM 1006	N	PHE A	72	155.602	6.420	6.465	1.00	0.00
ATOM 1007	CA	PHE A	72	155.185	5.857	7.743	1.00	0.00
ATOM 1008	C	PHE A	72	156.131	4.743	8.181	1.00	0.00
ATOM 1009	O	PHE A	72	156.903	4.218	7.379	1.00	0.00
ATOM 1010	CB	PHE A	72	153.757	5.319	7.645	1.00	0.00
ATOM 1011	CG	PHE A	72	153.573	4.298	6.558	1.00	0.00
ATOM 1012	CD1	PHE A	72	153.332	4.693	5.252	1.00	0.00
ATOM 1013	CD2	PHE A	72	153.642	2.944	6.844	1.00	0.00
ATOM 1014	CE1	PHE A	72	153.162	3.757	4.251	1.00	0.00
ATOM 1015	CE2	PHE A	72	153.474	2.002	5.846	1.00	0.00
ATOM 1016	CZ	PHE A	72	153.234	2.409	4.548	1.00	0.00
ATOM 1017	H	PHE A	72	156.068	5.848	5.820	1.00	0.00
ATOM 1018	HA	PHE A	72	155.213	6.647	8.479	1.00	0.00
ATOM 1019	1HB	PHE A	72	153.488	4.857	8.583	1.00	0.00
ATOM 1020	2HB	PHE A	72	153.083	6.140	7.448	1.00	0.00
ATOM 1021	HD1	PHE A	72	153.277	5.746	5.019	1.00	0.00
ATOM 1022	HD2	PHE A	72	153.830	2.625	7.858	1.00	0.00
ATOM 1023	HE1	PHE A	72	152.974	4.076	3.237	1.00	0.00
ATOM 1024	HE2	PHE A	72	153.530	0.949	6.081	1.00	0.00
ATOM 1025	HZ	PHE A	72	153.101	1.675	3.767	1.00	0.00
ATOM 1026	N	THR A	73	156.066	4.389	9.461	1.00	0.00
ATOM 1027	CA	THR A	73	156.917	3.338	10.006	1.00	0.00
ATOM 1028	C	THR A	73	156.150	2.025	10.130	1.00	0.00
ATOM 1029	O	THR A	73	155.140	1.948	10.830	1.00	0.00
ATOM 1030	CB	THR A	73	157.464	3.753	11.372	1.00	0.00

ATOM 1031	OG1	THR A	73	158.362	2.777	11.870	1.00	0.00
ATOM 1032	CG2	THR A	73	156.384	3.954	12.413	1.00	0.00
ATOM 1033	H	THR A	73	155.431	4.845	10.052	1.00	0.00
ATOM 1034	HA	THR A	73	157.744	3.194	9.326	1.00	0.00
ATOM 1035	HB	THR A	73	158.000	4.685	11.266	1.00	0.00
ATOM 1036	HG1	THR A	73	158.867	3.147	12.599	1.00	0.00
ATOM 1037	1HG2	THR A	73	155.632	4.627	12.027	1.00	0.00
ATOM 1038	2HG2	THR A	73	156.820	4.376	13.307	1.00	0.00
ATOM 1039	3HG2	THR A	73	155.928	3.004	12.649	1.00	0.00
ATOM 1040	N	CYS A	74	156.636	0.994	9.447	1.00	0.00
ATOM 1041	CA	CYS A	74	155.997	-0.316	9.480	1.00	0.00
ATOM 1042	C	CYS A	74	157.038	-1.430	9.449	1.00	0.00
ATOM 1043	O	CYS A	74	158.223	-1.180	9.227	1.00	0.00
ATOM 1044	CB	CYS A	74	155.035	-0.468	8.300	1.00	0.00
ATOM 1045	SG	CYS A	74	153.348	0.085	8.647	1.00	0.00
ATOM 1046	H	CYS A	74	157.445	1.118	8.906	1.00	0.00
ATOM 1047	HA	CYS A	74	155.437	-0.388	10.401	1.00	0.00
ATOM 1048	1HB	CYS A	74	155.404	0.110	7.467	1.00	0.00
ATOM 1049	2HB	CYS A	74	154.988	-1.510	8.016	1.00	0.00
ATOM 1050	HG	CYS A	74	153.401	0.908	9.138	1.00	0.00
ATOM 1051	N	ALA A	75	156.588	-2.660	9.672	1.00	0.00
ATOM 1052	CA	ALA A	75	157.480	-3.812	9.669	1.00	0.00
ATOM 1053	C	ALA A	75	158.153	-3.983	8.311	1.00	0.00
ATOM 1054	O	ALA A	75	157.610	-3.575	7.284	1.00	0.00
ATOM 1055	CB	ALA A	75	156.716	-5.072	10.045	1.00	0.00
ATOM 1056	H	ALA A	75	155.632	-2.796	9.844	1.00	0.00
ATOM 1057	HA	ALA A	75	158.242	-3.646	10.418	1.00	0.00
ATOM 1058	1HB	ALA A	75	157.123	-5.915	9.504	1.00	0.00
ATOM 1059	2HB	ALA A	75	155.673	-4.950	9.789	1.00	0.00

ATOM 1060	3HB	ALA A	75	156.808	-5.247	11.106	1.00	0.00
ATOM 1061	N	LEU A	76	159.336	-4.586	8.313	1.00	0.00
ATOM 1062	CA	LEU A	76	160.083	-4.810	7.082	1.00	0.00
ATOM 1063	C	LEU A	76	159.374	-5.828	6.194	1.00	0.00
ATOM 1064	O	LEU A	76	158.801	-6.801	6.683	1.00	0.00
ATOM 1065	CB	LEU A	76	161.499	-5.293	7.399	1.00	0.00
ATOM 1066	CG	LEU A	76	162.527	-4.183	7.624	1.00	0.00
ATOM 1067	CD1	LEU A	76	163.542	-4.599	8.676	1.00	0.00
ATOM 1068	CD2	LEU A	76	163.224	-3.830	6.317	1.00	0.00
ATOM 1069	H	LEU A	76	159.717	-4.889	9.165	1.00	0.00
ATOM 1070	HA	LEU A	76	160.142	-3.870	6.555	1.00	0.00
ATOM 1071	1HB	LEU A	76	161.458	-5.903	8.290	1.00	0.00
ATOM 1072	2HB	LEU A	76	161.840	-5.907	6.579	1.00	0.00
ATOM 1073	HG	LEU A	76	162.020	-3.298	7.981	1.00	0.00
ATOM 1074	1HD1	LEU A	76	163.624	-5.676	8.690	1.00	0.00
ATOM 1075	2HD1	LEU A	76	163.221	-4.250	9.645	1.00	0.00
ATOM 1076	3HD1	LEU A	76	164.504	-4.168	8.439	1.00	0.00
ATOM 1077	1HD2	LEU A	76	163.411	-2.767	6.285	1.00	0.00
ATOM 1078	2HD2	LEU A	76	162.593	-4.110	5.487	1.00	0.00
ATOM 1079	3HD2	LEU A	76	164.160	-4.363	6.254	1.00	0.00
ATOM 1080	N	LYS A	77	159.418	-5.596	4.885	1.00	0.00
ATOM 1081	CA	LYS A	77	158.781	-6.493	3.928	1.00	0.00
ATOM 1082	C	LYS A	77	157.274	-6.555	4.159	1.00	0.00
ATOM 1083	O	LYS A	77	156.666	-7.622	4.071	1.00	0.00
ATOM 1084	CB	LYS A	77	159.384	-7.895	4.030	1.00	0.00
ATOM 1085	CG	LYS A	77	160.904	-7.909	3.988	1.00	0.00
ATOM 1086	CD	LYS A	77	161.429	-7.427	2.644	1.00	0.00
ATOM 1087	CE	LYS A	77	162.780	-6.746	2.786	1.00	0.00
ATOM 1088	NZ	LYS A	77	163.531	-6.729	1.501	1.00	0.00

ATOM 1089	H	LYS A	77	159.891	-4.803	4.556	1.00	0.00
ATOM 1090	HA	LYS A	77	158.964	-6.103	2.937	1.00	0.00
ATOM 1091	1HB	LYS A	77	159.067	-8.344	4.960	1.00	0.00
ATOM 1092	2HB	LYS A	77	159.017	-8.493	3.208	1.00	0.00
ATOM 1093	1HG	LYS A	77	161.281	-7.260	4.764	1.00	0.00
ATOM 1094	2HG	LYS A	77	161.249	-8.917	4.159	1.00	0.00
ATOM 1095	1HD	LYS A	77	161.531	-8.274	1.984	1.00	0.00
ATOM 1096	2HD	LYS A	77	160.724	-6.725	2.224	1.00	0.00
ATOM 1097	1HE	LYS A	77	162.624	-5.730	3.116	1.00	0.00
ATOM 1098	2HE	LYS A	77	163.360	-7.279	3.526	1.00	0.00
ATOM 1099	1HZ	LYS A	77	163.321	-7.587	0.952	1.00	0.00
ATOM 1100	2HZ	LYS A	77	164.554	-6.690	1.685	1.00	0.00
ATOM 1101	3HZ	LYS A	77	163.260	-5.896	0.940	1.00	0.00
ATOM 1102	N	LYS A	78	156.678	-5.405	4.456	1.00	0.00
ATOM 1103	CA	LYS A	78	155.242	-5.330	4.698	1.00	0.00
ATOM 1104	C	LYS A	78	154.699	-3.953	4.332	1.00	0.00
ATOM 1105	O	LYS A	78	153.843	-3.405	5.028	1.00	0.00
ATOM 1106	CB	LYS A	78	154.935	-5.640	6.166	1.00	0.00
ATOM 1107	CG	LYS A	78	155.495	-6.973	6.635	1.00	0.00
ATOM 1108	CD	LYS A	78	155.154	-7.238	8.094	1.00	0.00
ATOM 1109	CE	LYS A	78	154.009	-8.229	8.228	1.00	0.00
ATOM 1110	NZ	LYS A	78	153.330	-8.117	9.549	1.00	0.00
ATOM 1111	H	LYS A	78	157.215	-4.588	4.511	1.00	0.00
ATOM 1112	HA	LYS A	78	154.761	-6.070	4.077	1.00	0.00
ATOM 1113	1HB	LYS A	78	155.357	-4.859	6.782	1.00	0.00
ATOM 1114	2HB	LYS A	78	153.865	-5.654	6.302	1.00	0.00
ATOM 1115	1HG	LYS A	78	155.075	-7.762	6.029	1.00	0.00
ATOM 1116	2HG	LYS A	78	156.568	-6.962	6.522	1.00	0.00
ATOM 1117	1HD	LYS A	78	156.025	-7.640	8.589	1.00	0.00

ATOM 1118	2HD	LYS A	78	154.869	-6.307	8.561	1.00	0.00
ATOM 1119	1HE	LYS A	78	153.289	-8.036	7.447	1.00	0.00
ATOM 1120	2HE	LYS A	78	154.401	-9.230	8.117	1.00	0.00
ATOM 1121	1HZ	LYS A	78	154.026	-8.210	10.317	1.00	0.00
ATOM 1122	2HZ	LYS A	78	152.618	-8.867	9.649	1.00	0.00
ATOM 1123	3HZ	LYS A	78	152.859	-7.194	9.632	1.00	0.00
ATOM 1124	N	ALA A	79	155.202	-3.396	3.235	1.00	0.00
ATOM 1125	CA	ALA A	79	154.767	-2.084	2.776	1.00	0.00
ATOM 1126	C	ALA A	79	154.653	-2.043	1.255	1.00	0.00
ATOM 1127	O	ALA A	79	155.661	-2.028	0.548	1.00	0.00
ATOM 1128	CB	ALA A	79	155.726	-1.009	3.264	1.00	0.00
ATOM 1129	H	ALA A	79	155.881	-3.882	2.722	1.00	0.00
ATOM 1130	HA	ALA A	79	153.795	-1.886	3.204	1.00	0.00
ATOM 1131	1HB	ALA A	79	156.708	-1.437	3.397	1.00	0.00
ATOM 1132	2HB	ALA A	79	155.374	-0.614	4.205	1.00	0.00
ATOM 1133	3HB	ALA A	79	155.776	-0.212	2.535	1.00	0.00
ATOM 1134	N	LEU A	80	153.421	-2.027	0.759	1.00	0.00
ATOM 1135	CA	LEU A	80	153.175	-1.988	-0.678	1.00	0.00
ATOM 1136	C	LEU A	80	152.304	-0.792	-1.048	1.00	0.00
ATOM 1137	O	LEU A	80	151.153	-0.696	-0.626	1.00	0.00
ATOM 1138	CB	LEU A	80	152.504	-3.285	-1.136	1.00	0.00
ATOM 1139	CG	LEU A	80	152.136	-3.336	-2.619	1.00	0.00
ATOM 1140	CD1	LEU A	80	153.365	-3.626	-3.465	1.00	0.00
ATOM 1141	CD2	LEU A	80	151.059	-4.382	-2.864	1.00	0.00
ATOM 1142	H	LEU A	80	152.657	-2.040	1.374	1.00	0.00
ATOM 1143	HA	LEU A	80	154.128	-1.893	-1.175	1.00	0.00
ATOM 1144	1HB	LEU A	80	153.173	-4.106	-0.923	1.00	0.00
ATOM 1145	2HB	LEU A	80	151.600	-3.421	-0.560	1.00	0.00
ATOM 1146	HG	LEU A	80	151.744	-2.374	-2.919	1.00	0.00

ATOM 1147	1HD1	LEU A	80	154.197	-3.037	-3.105	1.00	0.00
ATOM 1148	2HD1	LEU A	80	153.163	-3.372	-4.494	1.00	0.00
ATOM 1149	3HD1	LEU A	80	153.612	-4.675	-3.394	1.00	0.00
ATOM 1150	1HD2	LEU A	80	150.214	-4.186	-2.222	1.00	0.00
ATOM 1151	2HD2	LEU A	80	151.455	-5.364	-2.649	1.00	0.00
ATOM 1152	3HD2	LEU A	80	150.743	-4.338	-3.897	1.00	0.00
ATOM 1153	N	PHE A	81	152.863	0.117	-1.841	1.00	0.00
ATOM 1154	CA	PHE A	81	152.138	1.308	-2.268	1.00	0.00
ATOM 1155	C	PHE A	81	151.403	1.057	-3.581	1.00	0.00
ATOM 1156	O	PHE A	81	151.916	0.377	-4.471	1.00	0.00
ATOM 1157	CB	PHE A	81	153.099	2.487	-2.424	1.00	0.00
ATOM 1158	CG	PHE A	81	153.731	2.923	-1.133	1.00	0.00
ATOM 1159	CD1	PHE A	81	153.185	3.960	-0.395	1.00	0.00
ATOM 1160	CD2	PHE A	81	154.870	2.294	-0.657	1.00	0.00
ATOM 1161	CE1	PHE A	81	153.763	4.364	0.794	1.00	0.00
ATOM 1162	CE2	PHE A	81	155.454	2.693	0.531	1.00	0.00
ATOM 1163	CZ	PHE A	81	154.899	3.729	1.258	1.00	0.00
ATOM 1164	H	PHE A	81	153.785	-0.016	-2.145	1.00	0.00
ATOM 1165	HA	PHE A	81	151.413	1.545	-1.504	1.00	0.00
ATOM 1166	1HB	PHE A	81	153.892	2.208	-3.104	1.00	0.00
ATOM 1167	2HB	PHE A	81	152.561	3.330	-2.834	1.00	0.00
ATOM 1168	HD1	PHE A	81	152.296	4.456	-0.756	1.00	0.00
ATOM 1169	HD2	PHE A	81	155.305	1.485	-1.225	1.00	0.00
ATOM 1170	HE1	PHE A	81	153.327	5.173	1.360	1.00	0.00
ATOM 1171	HE2	PHE A	81	156.342	2.196	0.891	1.00	0.00
ATOM 1172	HZ	PHE A	81	155.353	4.042	2.186	1.00	0.00
ATOM 1173	N	VAL A	82	150.201	1.611	-3.696	1.00	0.00
ATOM 1174	CA	VAL A	82	149.396	1.450	-4.900	1.00	0.00
ATOM 1175	C	VAL A	82	148.446	2.627	-5.088	1.00	0.00

ATOM 1176	O	VAL A	82	148.236	3.421	-4.169	1.00	0.00
ATOM 1177	CB	VAL A	82	148.577	0.146	-4.859	1.00	0.00
ATOM 1178	CG1	VAL A	82	149.478	-1.058	-5.087	1.00	0.00
ATOM 1179	CG2	VAL A	82	147.835	0.023	-3.537	1.00	0.00
ATOM 1180	H	VAL A	82	149.847	2.143	-2.953	1.00	0.00
ATOM 1181	HA	VAL A	82	150.067	1.402	-5.746	1.00	0.00
ATOM 1182	HB	VAL A	82	147.848	0.177	-5.655	1.00	0.00
ATOM 1183	1HG1	VAL A	82	149.960	-0.970	-6.049	1.00	0.00
ATOM 1184	2HG1	VAL A	82	148.885	-1.960	-5.063	1.00	0.00
ATOM 1185	3HG1	VAL A	82	150.228	-1.099	-4.311	1.00	0.00
ATOM 1186	1HG2	VAL A	82	146.962	0.660	-3.553	1.00	0.00
ATOM 1187	2HG2	VAL A	82	148.485	0.325	-2.729	1.00	0.00
ATOM 1188	3HG2	VAL A	82	147.529	-1.002	-3.389	1.00	0.00
ATOM 1189	N	LYS A	83	147.874	2.735	-6.282	1.00	0.00
ATOM 1190	CA	LYS A	83	146.945	3.817	-6.590	1.00	0.00
ATOM 1191	C	LYS A	83	145.663	3.685	-5.774	1.00	0.00
ATOM 1192	O	LYS A	83	144.975	2.666	-5.840	1.00	0.00
ATOM 1193	CB	LYS A	83	146.615	3.825	-8.083	1.00	0.00
ATOM 1194	CG	LYS A	83	147.845	3.823	-8.977	1.00	0.00
ATOM 1195	CD	LYS A	83	147.465	3.755	-10.449	1.00	0.00
ATOM 1196	CE	LYS A	83	148.155	4.845	-11.255	1.00	0.00
ATOM 1197	NZ	LYS A	83	148.563	4.364	-12.604	1.00	0.00
ATOM 1198	H	LYS A	83	148.081	2.072	-6.973	1.00	0.00
ATOM 1199	HA	LYS A	83	147.425	4.749	-6.331	1.00	0.00
ATOM 1200	1HB	LYS A	83	146.027	2.949	-8.314	1.00	0.00
ATOM 1201	2HB	LYS A	83	146.034	4.707	-8.307	1.00	0.00
ATOM 1202	1HG	LYS A	83	148.406	4.728	-8.802	1.00	0.00
ATOM 1203	2HG	LYS A	83	148.454	2.966	-8.732	1.00	0.00
ATOM 1204	1HD	LYS A	83	147.757	2.793	-10.842	1.00	0.00

ATOM 1205	2HD	LYS A	83	146.396	3.874	-10.542	1.00	0.00
ATOM 1206	1HE	LYS A	83	147.475	5.675	-11.370	1.00	0.00
ATOM 1207	2HE	LYS A	83	149.033	5.171	-10.717	1.00	0.00
ATOM 1208	1HZ	LYS A	83	147.980	3.549	-12.884	1.00	0.00
ATOM 1209	2HZ	LYS A	83	149.561	4.075	-12.595	1.00	0.00
ATOM 1210	3HZ	LYS A	83	148.440	5.122	-13.306	1.00	0.00
ATOM 1211	N	LEU A	84	145.351	4.722	-5.006	1.00	0.00
ATOM 1212	CA	LEU A	84	144.153	4.729	-4.174	1.00	0.00
ATOM 1213	C	LEU A	84	142.897	4.559	-5.024	1.00	0.00
ATOM 1214	O	LEU A	84	141.895	4.013	-4.564	1.00	0.00
ATOM 1215	CB	LEU A	84	144.074	6.032	-3.377	1.00	0.00
ATOM 1216	CG	LEU A	84	142.801	6.209	-2.545	1.00	0.00
ATOM 1217	CD1	LEU A	84	142.854	5.339	-1.299	1.00	0.00
ATOM 1218	CD2	LEU A	84	142.610	7.670	-2.171	1.00	0.00
ATOM 1219	H	LEU A	84	145.941	5.504	-4.998	1.00	0.00
ATOM 1220	HA	LEU A	84	144.224	3.900	-3.486	1.00	0.00
ATOM 1221	1HB	LEU A	84	144.923	6.075	-2.712	1.00	0.00
ATOM 1222	2HB	LEU A	84	144.141	6.857	-4.071	1.00	0.00
ATOM 1223	HG	LEU A	84	141.949	5.898	-3.133	1.00	0.00
ATOM 1224	1HD1	LEU A	84	143.534	4.516	-1.464	1.00	0.00
ATOM 1225	2HD1	LEU A	84	141.868	4.954	-1.086	1.00	0.00
ATOM 1226	3HD1	LEU A	84	143.199	5.929	-0.463	1.00	0.00
ATOM 1227	1HD2	LEU A	84	141.604	7.821	-1.808	1.00	0.00
ATOM 1228	2HD2	LEU A	84	142.778	8.290	-3.039	1.00	0.00
ATOM 1229	3HD2	LEU A	84	143.315	7.939	-1.396	1.00	0.00
ATOM 1230	N	LYS A	85	142.959	5.029	-6.266	1.00	0.00
ATOM 1231	CA	LYS A	85	141.824	4.929	-7.178	1.00	0.00
ATOM 1232	C	LYS A	85	141.496	3.470	-7.482	1.00	0.00
ATOM 1233	O	LYS A	85	140.349	3.130	-7.773	1.00	0.00

ATOM 1234	CB	LYS A	85	142.121	5.677	-8.479	1.00	0.00
ATOM 1235	CG	LYS A	85	143.275	5.088	-9.271	1.00	0.00
ATOM 1236	CD	LYS A	85	143.806	6.071	-10.302	1.00	0.00
ATOM 1237	CE	LYS A	85	143.372	5.694	-11.709	1.00	0.00
ATOM 1238	NZ	LYS A	85	144.416	6.020	-12.719	1.00	0.00
ATOM 1239	H	LYS A	85	143.785	5.454	-6.576	1.00	0.00
ATOM 1240	HA	LYS A	85	140.972	5.383	-6.697	1.00	0.00
ATOM 1241	1HB	LYS A	85	141.238	5.658	-9.100	1.00	0.00
ATOM 1242	2HB	LYS A	85	142.362	6.703	-8.242	1.00	0.00
ATOM 1243	1HG	LYS A	85	144.072	4.830	-8.590	1.00	0.00
ATOM 1244	2HG	LYS A	85	142.932	4.197	-9.779	1.00	0.00
ATOM 1245	1HD	LYS A	85	143.430	7.057	-10.072	1.00	0.00
ATOM 1246	2HD	LYS A	85	144.886	6.077	-10.257	1.00	0.00
ATOM 1247	1HE	LYS A	85	143.174	4.634	-11.740	1.00	0.00
ATOM 1248	2HE	LYS A	85	142.469	6.235	-11.950	1.00	0.00
ATOM 1249	1HZ	LYS A	85	143.971	6.290	-13.620	1.00	0.00
ATOM 1250	2HZ	LYS A	85	145.027	5.195	-12.881	1.00	0.00
ATOM 1251	3HZ	LYS A	85	145.003	6.811	-12.384	1.00	0.00
ATOM 1252	N	SER A	86	142.509	2.612	-7.413	1.00	0.00
ATOM 1253	CA	SER A	86	142.324	1.190	-7.681	1.00	0.00
ATOM 1254	C	SER A	86	142.256	0.396	-6.381	1.00	0.00
ATOM 1255	O	SER A	86	142.707	-0.748	-6.314	1.00	0.00
ATOM 1256	CB	SER A	86	143.464	0.661	-8.554	1.00	0.00
ATOM 1257	OG	SER A	86	143.828	1.607	-9.546	1.00	0.00
ATOM 1258	H	SER A	86	143.401	2.941	-7.176	1.00	0.00
ATOM 1259	HA	SER A	86	141.392	1.071	-8.211	1.00	0.00
ATOM 1260	1HB	SER A	86	144.326	0.460	-7.936	1.00	0.00
ATOM 1261	2HB	SER A	86	143.149	-0.249	-9.042	1.00	0.00
ATOM 1262	HG	SER A	86	144.758	1.505	-9.761	1.00	0.00

ATOM 1263	N	CYS A	87	141.689	1.011	-5.347	1.00	0.00
ATOM 1264	CA	CYS A	87	141.562	0.362	-4.047	1.00	0.00
ATOM 1265	C	CYS A	87	140.106	0.024	-3.747	1.00	0.00
ATOM 1266	O	CYS A	87	139.191	0.546	-4.385	1.00	0.00
ATOM 1267	CB	CYS A	87	142.126	1.263	-2.946	1.00	0.00
ATOM 1268	SG	CYS A	87	143.933	1.305	-2.880	1.00	0.00
ATOM 1269	H	CYS A	87	141.349	1.923	-5.461	1.00	0.00
ATOM 1270	HA	CYS A	87	142.132	-0.554	-4.077	1.00	0.00
ATOM 1271	1HB	CYS A	87	141.781	2.273	-3.106	1.00	0.00
ATOM 1272	2HB	CYS A	87	141.769	0.914	-1.989	1.00	0.00
ATOM 1273	HG	CYS A	87	144.197	1.221	-1.961	1.00	0.00
ATOM 1274	N	ARG A	88	139.898	-0.854	-2.772	1.00	0.00
ATOM 1275	CA	ARG A	88	138.553	-1.266	-2.385	1.00	0.00
ATOM 1276	C	ARG A	88	138.447	-1.417	-0.869	1.00	0.00
ATOM 1277	O	ARG A	88	139.403	-1.831	-0.212	1.00	0.00
ATOM 1278	CB	ARG A	88	138.183	-2.584	-3.071	1.00	0.00
ATOM 1279	CG	ARG A	88	137.314	-2.402	-4.306	1.00	0.00
ATOM 1280	CD	ARG A	88	135.890	-2.876	-4.063	1.00	0.00
ATOM 1281	NE	ARG A	88	134.910	-2.045	-4.758	1.00	0.00
ATOM 1282	CZ	ARG A	88	133.621	-2.356	-4.870	1.00	0.00
ATOM 1283	NH1	ARG A	88	133.152	-3.476	-4.333	1.00	0.00
ATOM 1284	NH2	ARG A	88	132.797	-1.545	-5.519	1.00	0.00
ATOM 1285	H	ARG A	88	140.668	-1.236	-2.302	1.00	0.00
ATOM 1286	HA	ARG A	88	137.868	-0.497	-2.707	1.00	0.00
ATOM 1287	1HB	ARG A	88	139.090	-3.088	-3.366	1.00	0.00
ATOM 1288	2HB	ARG A	88	137.648	-3.205	-2.368	1.00	0.00
ATOM 1289	1HG	ARG A	88	137.293	-1.355	-4.569	1.00	0.00
ATOM 1290	2HG	ARG A	88	137.739	-2.972	-5.119	1.00	0.00
ATOM 1291	1HD	ARG A	88	135.798	-3.893	-4.413	1.00	0.00

ATOM 1292	2HD	ARG A	88	135.689	-2.842	-3.001	1.00	0.00
ATOM 1293	HE	ARG A	88	135.230	-1.212	-5.164	1.00	0.00
ATOM 1294	1HH1	ARG A	88	133.766	-4.092	-3.841	1.00	0.00
ATOM 1295	2HH1	ARG A	88	132.182	-3.703	-4.421	1.00	0.00
ATOM 1296	1HH2	ARG A	88	133.145	-0.699	-5.925	1.00	0.00
ATOM 1297	2HH2	ARG A	88	131.829	-1.778	-5.604	1.00	0.00
ATOM 1298	N	PRO A	89	137.281	-1.084	-0.289	1.00	0.00
ATOM 1299	CA	PRO A	89	137.064	-1.190	1.153	1.00	0.00
ATOM 1300	C	PRO A	89	137.008	-2.639	1.622	1.00	0.00
ATOM 1301	O	PRO A	89	136.039	-3.351	1.359	1.00	0.00
ATOM 1302	CB	PRO A	89	135.714	-0.504	1.370	1.00	0.00
ATOM 1303	CG	PRO A	89	135.018	-0.570	0.057	1.00	0.00
ATOM 1304	CD	PRO A	89	136.088	-0.585	-0.997	1.00	0.00
ATOM 1305	HA	PRO A	89	137.830	-0.665	1.706	1.00	0.00
ATOM 1306	1HB	PRO A	89	135.163	-1.036	2.125	1.00	0.00
ATOM 1307	2HB	PRO A	89	135.871	0.517	1.682	1.00	0.00
ATOM 1308	1HG	PRO A	89	134.429	-1.472	0.000	1.00	0.00
ATOM 1309	2HG	PRO A	89	134.387	0.298	-0.066	1.00	0.00
ATOM 1310	1HD	PRO A	89	135.811	-1.255	-1.793	1.00	0.00
ATOM 1311	2HD	PRO A	89	136.256	0.411	-1.381	1.00	0.00
ATOM 1312	N	ASP A	90	138.054	-3.069	2.319	1.00	0.00
ATOM 1313	CA	ASP A	90	138.128	-4.434	2.825	1.00	0.00
ATOM 1314	C	ASP A	90	137.164	-4.636	3.990	1.00	0.00
ATOM 1315	O	ASP A	90	137.120	-3.830	4.918	1.00	0.00
ATOM 1316	CB	ASP A	90	139.555	-4.759	3.267	1.00	0.00
ATOM 1317	CG	ASP A	90	139.889	-6.229	3.108	1.00	0.00
ATOM 1318	OD1	ASP A	90	139.585	-6.796	2.037	1.00	0.00
ATOM 1319	OD2	ASP A	90	140.457	-6.814	4.055	1.00	0.00
ATOM 1320	H	ASP A	90	138.797	-2.454	2.495	1.00	0.00

ATOM 1321	HA	ASP A	90	137.848	-5.101	2.023	1.00	0.00
ATOM 1322	1HB	ASP A	90	140.248	-4.184	2.671	1.00	0.00
ATOM 1323	2HB	ASP A	90	139.673	-4.491	4.307	1.00	0.00
ATOM 1324	N	SER A	91	136.396	-5.720	3.935	1.00	0.00
ATOM 1325	CA	SER A	91	135.434	-6.029	4.986	1.00	0.00
ATOM 1326	C	SER A	91	135.792	-7.340	5.682	1.00	0.00
ATOM 1327	O	SER A	91	134.923	-8.023	6.222	1.00	0.00
ATOM 1328	CB	SER A	91	134.023	-6.119	4.404	1.00	0.00
ATOM 1329	OG	SER A	91	133.050	-5.735	5.359	1.00	0.00
ATOM 1330	H	SER A	91	136.479	-6.326	3.170	1.00	0.00
ATOM 1331	HA	SER A	91	135.465	-5.230	5.712	1.00	0.00
ATOM 1332	1HB	SER A	91	133.946	-5.467	3.547	1.00	0.00
ATOM 1333	2HB	SER A	91	133.828	-7.138	4.100	1.00	0.00
ATOM 1334	HG	SER A	91	132.215	-6.165	5.157	1.00	0.00
ATOM 1335	N	ARG A	92	137.076	-7.684	5.665	1.00	0.00
ATOM 1336	CA	ARG A	92	137.546	-8.913	6.293	1.00	0.00
ATOM 1337	C	ARG A	92	137.347	-8.863	7.804	1.00	0.00
ATOM 1338	O	ARG A	92	137.151	-9.893	8.448	1.00	0.00
ATOM 1339	CB	ARG A	92	139.023	-9.143	5.969	1.00	0.00
ATOM 1340	CG	ARG A	92	139.262	-9.692	4.571	1.00	0.00
ATOM 1341	CD	ARG A	92	140.006	-11.019	4.610	1.00	0.00
ATOM 1342	NE	ARG A	92	139.227	-12.063	5.272	1.00	0.00
ATOM 1343	CZ	ARG A	92	139.480	-13.364	5.153	1.00	0.00
ATOM 1344	NH1	ARG A	92	140.489	-13.785	4.400	1.00	0.00
ATOM 1345	NH2	ARG A	92	138.723	-14.248	5.790	1.00	0.00
ATOM 1346	H	ARG A	92	137.723	-7.099	5.218	1.00	0.00
ATOM 1347	HA	ARG A	92	136.968	-9.731	5.893	1.00	0.00
ATOM 1348	1HB	ARG A	92	139.550	-8.203	6.057	1.00	0.00
ATOM 1349	2HB	ARG A	92	139.432	-9.842	6.684	1.00	0.00

ATOM 1350	1HG	ARG A	92	138.308	-9.841	4.086	1.00	0.00
ATOM 1351	2HG	ARG A	92	139.847	-8.978	4.010	1.00	0.00
ATOM 1352	1HD	ARG A	92	140.217	-11.328	3.597	1.00	0.00
ATOM 1353	2HD	ARG A	92	140.934	-10.880	5.144	1.00	0.00
ATOM 1354	HE	ARG A	92	138.476	-11.780	5.835	1.00	0.00
ATOM 1355	1HH1	ARG A	92	141.063	-13.125	3.917	1.00	0.00
ATOM 1356	2HH1	ARG A	92	140.674	-14.765	4.314	1.00	0.00
ATOM 1357	1HH2	ARG A	92	137.962	-13.936	6.358	1.00	0.00
ATOM 1358	2HH2	ARG A	92	138.913	-15.226	5.700	1.00	0.00
ATOM 1359	N	PHE A	93	137.397	-7.659	8.364	1.00	0.00
ATOM 1360	CA	PHE A	93	137.223	-7.476	9.800	1.00	0.00
ATOM 1361	C	PHE A	93	135.885	-6.812	10.112	1.00	0.00
ATOM 1362	O	PHE A	93	135.734	-6.155	11.142	1.00	0.00
ATOM 1363	CB	PHE A	93	138.367	-6.637	10.371	1.00	0.00
ATOM 1364	CG	PHE A	93	139.721	-7.254	10.173	1.00	0.00
ATOM 1365	CD1	PHE A	93	140.279	-7.342	8.908	1.00	0.00
ATOM 1366	CD2	PHE A	93	140.437	-7.747	11.253	1.00	0.00
ATOM 1367	CE1	PHE A	93	141.526	-7.910	8.722	1.00	0.00
ATOM 1368	CE2	PHE A	93	141.684	-8.317	11.074	1.00	0.00
ATOM 1369	CZ	PHE A	93	142.229	-8.398	9.806	1.00	0.00
ATOM 1370	H	PHE A	93	137.557	-6.874	7.799	1.00	0.00
ATOM 1371	HA	PHE A	93	137.241	-8.453	10.262	1.00	0.00
ATOM 1372	1HB	PHE A	93	138.369	-5.670	9.889	1.00	0.00
ATOM 1373	2HB	PHE A	93	138.212	-6.504	11.432	1.00	0.00
ATOM 1374	HD1	PHE A	93	139.730	-6.960	8.059	1.00	0.00
ATOM 1375	HD2	PHE A	93	140.012	-7.685	12.243	1.00	0.00
ATOM 1376	HE1	PHE A	93	141.949	-7.972	7.731	1.00	0.00
ATOM 1377	HE2	PHE A	93	142.231	-8.697	11.923	1.00	0.00
ATOM 1378	HZ	PHE A	93	143.202	-8.842	9.664	1.00	0.00

ATOM 1379	N	ALA A	94	134.916	-6.986	9.218	1.00	0.00
ATOM 1380	CA	ALA A	94	133.595	-6.401	9.405	1.00	0.00
ATOM 1381	C	ALA A	94	132.702	-7.316	10.237	1.00	0.00
ATOM 1382	O	ALA A	94	132.468	-8.468	9.874	1.00	0.00
ATOM 1383	CB	ALA A	94	132.949	-6.115	8.058	1.00	0.00
ATOM 1384	H	ALA A	94	135.094	-7.520	8.415	1.00	0.00
ATOM 1385	HA	ALA A	94	133.716	-5.462	9.925	1.00	0.00
ATOM 1386	1HB	ALA A	94	133.541	-5.389	7.522	1.00	0.00
ATOM 1387	2HB	ALA A	94	131.953	-5.726	8.211	1.00	0.00
ATOM 1388	3HB	ALA A	94	132.893	-7.029	7.484	1.00	0.00
ATOM 1389	N	SER A	95	132.209	-6.796	11.355	1.00	0.00
ATOM 1390	CA	SER A	95	131.342	-7.566	12.239	1.00	0.00
ATOM 1391	C	SER A	95	129.945	-7.708	11.644	1.00	0.00
ATOM 1392	O	SER A	95	129.179	-6.746	11.599	1.00	0.00
ATOM 1393	CB	SER A	95	131.257	-6.899	13.614	1.00	0.00
ATOM 1394	OG	SER A	95	132.407	-7.186	14.392	1.00	0.00
ATOM 1395	H	SER A	95	132.432	-5.870	11.591	1.00	0.00
ATOM 1396	HA	SER A	95	131.774	-8.549	12.352	1.00	0.00
ATOM 1397	1HB	SER A	95	131.182	-5.829	13.489	1.00	0.00
ATOM 1398	2HB	SER A	95	130.385	-7.264	14.135	1.00	0.00
ATOM 1399	HG	SER A	95	132.620	-8.119	14.315	1.00	0.00
ATOM 1400	N	LEU A	96	129.621	-8.914	11.189	1.00	0.00
ATOM 1401	CA	LEU A	96	128.316	-9.182	10.596	1.00	0.00
ATOM 1402	C	LEU A	96	127.644	-10.372	11.274	1.00	0.00
ATOM 1403	O	LEU A	96	126.893	-11.115	10.643	1.00	0.00
ATOM 1404	CB	LEU A	96	128.460	-9.448	9.096	1.00	0.00
ATOM 1405	CG	LEU A	96	127.305	-8.937	8.233	1.00	0.00
ATOM 1406	CD1	LEU A	96	127.553	-7.499	7.806	1.00	0.00
ATOM 1407	CD2	LEU A	96	127.113	-9.831	7.018	1.00	0.00

ATOM 1408	H	LEU A	96	130.276	-9.640	11.253	1.00	0.00
ATOM 1409	HA	LEU A	96	127.701	-8.307	10.739	1.00	0.00
ATOM 1410	1HB	LEU A	96	129.372	-8.980	8.754	1.00	0.00
ATOM 1411	2HB	LEU A	96	128.545	-10.514	8.948	1.00	0.00
ATOM 1412	HG	LEU A	96	126.394	-8.960	8.814	1.00	0.00
ATOM 1413	1HD1	LEU A	96	127.577	-6.864	8.679	1.00	0.00
ATOM 1414	2HD1	LEU A	96	126.761	-7.177	7.147	1.00	0.00
ATOM 1415	3HD1	LEU A	96	128.499	-7.436	7.289	1.00	0.00
ATOM 1416	1HD2	LEU A	96	127.426	-10.837	7.257	1.00	0.00
ATOM 1417	2HD2	LEU A	96	127.705	-9.456	6.197	1.00	0.00
ATOM 1418	3HD2	LEU A	96	126.069	-9.836	6.736	1.00	0.00
ATOM 1419	N	GLN A	97	127.920	-10.544	12.562	1.00	0.00
ATOM 1420	CA	GLN A	97	127.342	-11.644	13.326	1.00	0.00
ATOM 1421	C	GLN A	97	126.857	-11.162	14.692	1.00	0.00
ATOM 1422	O	GLN A	97	127.477	-11.447	15.717	1.00	0.00
ATOM 1423	CB	GLN A	97	128.367	-12.766	13.501	1.00	0.00
ATOM 1424	CG	GLN A	97	127.750	-14.100	13.891	1.00	0.00
ATOM 1425	CD	GLN A	97	127.539	-15.014	12.701	1.00	0.00
ATOM 1426	OE1	GLN A	97	128.421	-15.789	12.335	1.00	0.00
ATOM 1427	NE2	GLN A	97	126.362	-14.926	12.090	1.00	0.00
ATOM 1428	H	GLN A	97	128.526	-9.919	13.009	1.00	0.00
ATOM 1429	HA	GLN A	97	126.497	-12.024	12.772	1.00	0.00
ATOM 1430	1HB	GLN A	97	128.901	-12.899	12.571	1.00	0.00
ATOM 1431	2HB	GLN A	97	129.069	-12.479	14.271	1.00	0.00
ATOM 1432	1HG	GLN A	97	128.405	-14.594	14.593	1.00	0.00
ATOM 1433	2HG	GLN A	97	126.794	-13.915	14.360	1.00	0.00
ATOM 1434	1HE2	GLN A	97	125.707	-14.287	12.436	1.00	0.00
ATOM 1435	2HE2	GLN A	97	126.199	-15.506	11.318	1.00	0.00
ATOM 1436	N	PRO A	98	125.735	-10.422	14.723	1.00	0.00

ATOM 1437	CA	PRO A	98	125.168	-9.901	15.972	1.00	0.00
ATOM 1438	C	PRO A	98	124.976	-10.992	17.021	1.00	0.00
ATOM 1439	O	PRO A	98	125.270	-12.161	16.775	1.00	0.00
ATOM 1440	CB	PRO A	98	123.815	-9.331	15.539	1.00	0.00
ATOM 1441	CG	PRO A	98	123.984	-9.006	14.096	1.00	0.00
ATOM 1442	CD	PRO A	98	124.932	-10.038	13.547	1.00	0.00
ATOM 1443	HA	PRO A	98	125.779	-9.111	16.383	1.00	0.00
ATOM 1444	1HB	PRO A	98	123.045	-10.074	15.690	1.00	0.00
ATOM 1445	2HB	PRO A	98	123.591	-8.449	16.118	1.00	0.00
ATOM 1446	1HG	PRO A	98	123.031	-9.067	13.591	1.00	0.00
ATOM 1447	2HG	PRO A	98	124.405	-8.017	13.989	1.00	0.00
ATOM 1448	1HD	PRO A	98	124.386	-10.884	13.159	1.00	0.00
ATOM 1449	2HD	PRO A	98	125.557	-9.605	12.779	1.00	0.00
ATOM 1450	N	SER A	99	124.481	-10.600	18.190	1.00	0.00
ATOM 1451	CA	SER A	99	124.250	-11.544	19.276	1.00	0.00
ATOM 1452	C	SER A	99	123.171	-11.029	20.225	1.00	0.00
ATOM 1453	O	SER A	99	123.050	-9.825	20.446	1.00	0.00
ATOM 1454	CB	SER A	99	125.546	-11.794	20.048	1.00	0.00
ATOM 1455	OG	SER A	99	126.246	-12.909	19.523	1.00	0.00
ATOM 1456	H	SER A	99	124.265	-9.653	18.325	1.00	0.00
ATOM 1457	HA	SER A	99	123.915	-12.474	18.841	1.00	0.00
ATOM 1458	1HB	SER A	99	126.180	-10.922	19.976	1.00	0.00
ATOM 1459	2HB	SER A	99	125.315	-11.985	21.086	1.00	0.00
ATOM 1460	HG	SER A	99	126.177	-13.646	20.133	1.00	0.00
ATOM 1461	N	GLY A	100	122.391	-11.949	20.781	1.00	0.00
ATOM 1462	CA	GLY A	100	121.333	-11.568	21.698	1.00	0.00
ATOM 1463	C	GLY A	100	120.669	-12.768	22.350	1.00	0.00
ATOM 1464	O	GLY A	100	120.882	-13.029	23.534	1.00	0.00
ATOM 1465	H	GLY A	100	122.534	-12.895	20.567	1.00	0.00

ATOM 1466	1HA	GLY A 100	121.751	-10.939	22.470	1.00	0.00
ATOM 1467	2HA	GLY A 100	120.586	-11.008	21.156	1.00	0.00
ATOM 1468	N	PRO A 101	119.853	-13.522	21.595	1.00	0.00
ATOM 1469	CA	PRO A 101	119.160	-14.704	22.119	1.00	0.00
ATOM 1470	C	PRO A 101	120.116	-15.855	22.408	1.00	0.00
ATOM 1471	O	PRO A 101	120.667	-16.463	21.490	1.00	0.00
ATOM 1472	CB	PRO A 101	118.195	-15.080	20.993	1.00	0.00
ATOM 1473	CG	PRO A 101	118.825	-14.540	19.758	1.00	0.00
ATOM 1474	CD	PRO A 101	119.542	-13.284	20.172	1.00	0.00
ATOM 1475	HA	PRO A 101	118.601	-14.469	23.014	1.00	0.00
ATOM 1476	1HB	PRO A 101	118.090	-16.154	20.949	1.00	0.00
ATOM 1477	2HB	PRO A 101	117.232	-14.626	21.174	1.00	0.00
ATOM 1478	1HG	PRO A 101	119.528	-15.258	19.359	1.00	0.00
ATOM 1479	2HG	PRO A 101	118.065	-14.313	19.026	1.00	0.00
ATOM 1480	1HD	PRO A 101	120.447	-13.159	19.596	1.00	0.00
ATOM 1481	2HD	PRO A 101	118.897	-12.426	20.058	1.00	0.00
ATOM 1482	N	SER A 102	120.309	-16.151	23.689	1.00	0.00
ATOM 1483	CA	SER A 102	121.200	-17.231	24.099	1.00	0.00
ATOM 1484	C	SER A 102	120.630	-18.587	23.699	1.00	0.00
ATOM 1485	O	SER A 102	119.414	-18.780	23.677	1.00	0.00
ATOM 1486	CB	SER A 102	121.427	-17.187	25.611	1.00	0.00
ATOM 1487	OG	SER A 102	122.349	-18.183	26.017	1.00	0.00
ATOM 1488	H	SER A 102	119.841	-15.631	24.375	1.00	0.00
ATOM 1489	HA	SER A 102	122.145	-17.090	23.598	1.00	0.00
ATOM 1490	1HB	SER A 102	121.817	-16.219	25.886	1.00	0.00
ATOM 1491	2HB	SER A 102	120.488	-17.354	26.119	1.00	0.00
ATOM 1492	HG	SER A 102	123.180	-18.059	25.552	1.00	0.00
ATOM 1493	N	SER A 103	121.516	-19.526	23.382	1.00	0.00
ATOM 1494	CA	SER A 103	121.102	-20.866	22.981	1.00	0.00

ATOM 1495 C SER A 103 121.823 -21.928 23.805 1.00 0.00
ATOM 1496 O SER A 103 123.042 -22.072 23.719 1.00 0.00
ATOM 1497 CB SER A 103 121.377 -21.085 21.493 1.00 0.00
ATOM 1498 OG SER A 103 120.252 -20.729 20.707 1.00 0.00
ATOM 1499 H SER A 103 122.472 -19.313 23.418 1.00 0.00
ATOM 1500 HA SER A 103 120.039 -20.951 23.158 1.00 0.00
ATOM 1501 1HB SER A 103 122.217 -20.476 21.191 1.00 0.00
ATOM 1502 2HB SER A 103 121.607 -22.126 21.320 1.00 0.00
ATOM 1503 HG SER A 103 120.093 -21.410 20.049 1.00 0.00
ATOM 1504 N GLY A 104 121.061 -22.669 24.603 1.00 0.00
ATOM 1505 CA GLY A 104 121.646 -23.707 25.431 1.00 0.00
ATOM 1506 C GLY A 104 122.322 -23.152 26.668 1.00 0.00
ATOM 1507 O GLY A 104 123.503 -22.755 26.571 1.00 0.00
ATOM 1508 OXT GLY A 104 121.672 -23.112 27.733 1.00 0.00
ATOM 1509 H GLY A 104 120.094 -22.508 24.630 1.00 0.00
ATOM 1510 1HA GLY A 104 120.866 -24.390 25.736 1.00 0.00
ATOM 1511 2HA GLY A 104 122.375 -24.249 24.848 1.00 0.00
TER 1512 GLY A 104
ENDMDL

【 0 1 1 3 】

立体構造座標表 1 6

ATOM 1 N GLY A 1 114.465 13.647 -4.280 1.00 0.00
ATOM 2 CA GLY A 1 115.658 12.860 -4.696 1.00 0.00
ATOM 3 C GLY A 1 116.783 12.931 -3.682 1.00 0.00
ATOM 4 O GLY A 1 116.542 13.135 -2.492 1.00 0.00
ATOM 5 1H GLY A 1 114.611 14.656 -4.490 1.00 0.00
ATOM 6 2H GLY A 1 114.301 13.538 -3.259 1.00 0.00
ATOM 7 3H GLY A 1 113.622 13.317 -4.792 1.00 0.00

ATOM 8	1HA	GLY A	1	115.368	11.827	-4.822	1.00	0.00
ATOM 9	2HA	GLY A	1	116.016	13.241	-5.641	1.00	0.00
ATOM 10	N	SER A	2	118.014	12.764	-4.154	1.00	0.00
ATOM 11	CA	SER A	2	119.180	12.812	-3.281	1.00	0.00
ATOM 12	C	SER A	2	119.109	11.718	-2.218	1.00	0.00
ATOM 13	O	SER A	2	118.033	11.209	-1.910	1.00	0.00
ATOM 14	CB	SER A	2	119.288	14.183	-2.611	1.00	0.00
ATOM 15	OG	SER A	2	120.412	14.244	-1.750	1.00	0.00
ATOM 16	H	SER A	2	118.141	12.606	-5.113	1.00	0.00
ATOM 17	HA	SER A	2	120.057	12.649	-3.889	1.00	0.00
ATOM 18	1HB	SER A	2	119.391	14.944	-3.370	1.00	0.00
ATOM 19	2HB	SER A	2	118.395	14.369	-2.033	1.00	0.00
ATOM 20	HG	SER A	2	120.671	15.160	-1.627	1.00	0.00
ATOM 21	N	SER A	3	120.263	11.363	-1.664	1.00	0.00
ATOM 22	CA	SER A	3	120.332	10.331	-0.637	1.00	0.00
ATOM 23	C	SER A	3	119.649	10.793	0.646	1.00	0.00
ATOM 24	O	SER A	3	119.225	11.943	0.756	1.00	0.00
ATOM 25	CB	SER A	3	121.790	9.965	-0.348	1.00	0.00
ATOM 26	OG	SER A	3	122.435	9.482	-1.514	1.00	0.00
ATOM 27	H	SER A	3	121.089	11.806	-1.953	1.00	0.00
ATOM 28	HA	SER A	3	119.819	9.458	-1.009	1.00	0.00
ATOM 29	1HB	SER A	3	122.316	10.840	0.002	1.00	0.00
ATOM 30	2HB	SER A	3	121.822	9.198	0.411	1.00	0.00
ATOM 31	HG	SER A	3	122.692	10.223	-2.067	1.00	0.00
ATOM 32	N	GLY A	4	119.545	9.888	1.614	1.00	0.00
ATOM 33	CA	GLY A	4	118.912	10.221	2.876	1.00	0.00
ATOM 34	C	GLY A	4	119.917	10.581	3.953	1.00	0.00
ATOM 35	O	GLY A	4	119.656	10.397	5.141	1.00	0.00
ATOM 36	H	GLY A	4	119.901	8.986	1.470	1.00	0.00

ATOM 37	1HA	GLY A	4	118.249	11.060	2.723	1.00	0.00
ATOM 38	2HA	GLY A	4	118.331	9.374	3.210	1.00	0.00
ATOM 39	N	SER A	5	121.069	11.095	3.536	1.00	0.00
ATOM 40	CA	SER A	5	122.118	11.481	4.474	1.00	0.00
ATOM 41	C	SER A	5	122.635	12.882	4.162	1.00	0.00
ATOM 42	O	SER A	5	123.763	13.050	3.698	1.00	0.00
ATOM 43	CB	SER A	5	123.269	10.475	4.427	1.00	0.00
ATOM 44	OG	SER A	5	124.148	10.652	5.523	1.00	0.00
ATOM 45	H	SER A	5	121.219	11.217	2.575	1.00	0.00
ATOM 46	HA	SER A	5	121.691	11.480	5.465	1.00	0.00
ATOM 47	1HB	SER A	5	122.870	9.472	4.461	1.00	0.00
ATOM 48	2HB	SER A	5	123.824	10.609	3.510	1.00	0.00
ATOM 49	HG	SER A	5	125.049	10.735	5.201	1.00	0.00
ATOM 50	N	SER A	6	121.802	13.885	4.419	1.00	0.00
ATOM 51	CA	SER A	6	122.174	15.272	4.165	1.00	0.00
ATOM 52	C	SER A	6	122.528	15.487	2.696	1.00	0.00
ATOM 53	O	SER A	6	123.240	16.430	2.350	1.00	0.00
ATOM 54	CB	SER A	6	123.357	15.675	5.048	1.00	0.00
ATOM 55	OG	SER A	6	123.715	17.028	4.837	1.00	0.00
ATOM 56	H	SER A	6	120.916	13.687	4.787	1.00	0.00
ATOM 57	HA	SER A	6	121.326	15.893	4.412	1.00	0.00
ATOM 58	1HB	SER A	6	123.089	15.544	6.086	1.00	0.00
ATOM 59	2HB	SER A	6	124.206	15.048	4.815	1.00	0.00
ATOM 60	HG	SER A	6	124.530	17.069	4.329	1.00	0.00
ATOM 61	N	GLY A	7	122.025	14.607	1.832	1.00	0.00
ATOM 62	CA	GLY A	7	122.298	14.722	0.411	1.00	0.00
ATOM 63	C	GLY A	7	123.782	14.785	0.103	1.00	0.00
ATOM 64	O	GLY A	7	124.188	15.347	-0.914	1.00	0.00
ATOM 65	H	GLY A	7	121.462	13.877	2.162	1.00	0.00

ATOM 66	1HA	GLY A	7	121.875	13.867	-0.095	1.00	0.00
ATOM 67	2HA	GLY A	7	121.826	15.617	0.036	1.00	0.00
ATOM 68	N	LEU A	8	124.593	14.208	0.985	1.00	0.00
ATOM 69	CA	LEU A	8	126.040	14.204	0.802	1.00	0.00
ATOM 70	C	LEU A	8	126.654	12.914	1.338	1.00	0.00
ATOM 71	O	LEU A	8	126.101	12.277	2.233	1.00	0.00
ATOM 72	CB	LEU A	8	126.668	15.410	1.502	1.00	0.00
ATOM 73	CG	LEU A	8	126.465	16.749	0.792	1.00	0.00
ATOM 74	CD1	LEU A	8	126.371	17.881	1.803	1.00	0.00
ATOM 75	CD2	LEU A	8	127.595	17.004	-0.194	1.00	0.00
ATOM 76	H	LEU A	8	124.210	13.777	1.777	1.00	0.00
ATOM 77	HA	LEU A	8	126.241	14.270	-0.258	1.00	0.00
ATOM 78	1HB	LEU A	8	126.244	15.484	2.494	1.00	0.00
ATOM 79	2HB	LEU A	8	127.729	15.235	1.594	1.00	0.00
ATOM 80	HG	LEU A	8	125.537	16.718	0.238	1.00	0.00
ATOM 81	1HD1	LEU A	8	125.365	17.934	2.193	1.00	0.00
ATOM 82	2HD1	LEU A	8	126.619	18.815	1.321	1.00	0.00
ATOM 83	3HD1	LEU A	8	127.061	17.699	2.613	1.00	0.00
ATOM 84	1HD2	LEU A	8	127.586	16.240	-0.958	1.00	0.00
ATOM 85	2HD2	LEU A	8	128.540	16.980	0.328	1.00	0.00
ATOM 86	3HD2	LEU A	8	127.462	17.973	-0.652	1.00	0.00
ATOM 87	N	ALA A	9	127.801	12.537	0.783	1.00	0.00
ATOM 88	CA	ALA A	9	128.491	11.324	1.204	1.00	0.00
ATOM 89	C	ALA A	9	129.942	11.326	0.735	1.00	0.00
ATOM 90	O	ALA A	9	130.521	10.272	0.470	1.00	0.00
ATOM 91	CB	ALA A	9	127.766	10.095	0.677	1.00	0.00
ATOM 92	H	ALA A	9	128.193	13.087	0.072	1.00	0.00
ATOM 93	HA	ALA A	9	128.473	11.288	2.284	1.00	0.00
ATOM 94	1HB	ALA A	9	128.252	9.203	1.046	1.00	0.00

ATOM 95	2HB	ALA A	9	127.791	10.097	-0.403	1.00	0.00
ATOM 96	3HB	ALA A	9	126.740	10.110	1.012	1.00	0.00
ATOM 97	N	MET A	10	130.524	12.517	0.633	1.00	0.00
ATOM 98	CA	MET A	10	131.908	12.656	0.195	1.00	0.00
ATOM 99	C	MET A	10	132.400	14.089	0.386	1.00	0.00
ATOM 100	O	MET A	10	132.681	14.794	-0.583	1.00	0.00
ATOM 101	CB	MET A	10	132.042	12.247	-1.274	1.00	0.00
ATOM 102	CG	MET A	10	131.090	12.986	-2.200	1.00	0.00
ATOM 103	SD	MET A	10	129.481	12.181	-2.329	1.00	0.00
ATOM 104	CE	MET A	10	128.429	13.582	-2.694	1.00	0.00
ATOM 105	H	MET A	10	130.012	13.321	0.857	1.00	0.00
ATOM 106	HA	MET A	10	132.514	11.996	0.799	1.00	0.00
ATOM 107	1HB	MET A	10	133.053	12.445	-1.599	1.00	0.00
ATOM 108	2HB	MET A	10	131.847	11.189	-1.361	1.00	0.00
ATOM 109	1HG	MET A	10	130.946	13.987	-1.823	1.00	0.00
ATOM 110	2HG	MET A	10	131.532	13.034	-3.185	1.00	0.00
ATOM 111	1HE	MET A	10	127.605	13.263	-3.315	1.00	0.00
ATOM 112	2HE	MET A	10	129.001	14.335	-3.216	1.00	0.00
ATOM 113	3HE	MET A	10	128.046	13.996	-1.773	1.00	0.00
ATOM 114	N	PRO A	11	132.508	14.542	1.648	1.00	0.00
ATOM 115	CA	PRO A	11	132.967	15.899	1.963	1.00	0.00
ATOM 116	C	PRO A	11	134.349	16.201	1.385	1.00	0.00
ATOM 117	O	PRO A	11	134.556	17.252	0.777	1.00	0.00
ATOM 118	CB	PRO A	11	133.008	15.926	3.495	1.00	0.00
ATOM 119	CG	PRO A	11	132.100	14.826	3.926	1.00	0.00
ATOM 120	CD	PRO A	11	132.192	13.770	2.862	1.00	0.00
ATOM 121	HA	PRO A	11	132.266	16.640	1.609	1.00	0.00
ATOM 122	1HB	PRO A	11	134.020	15.761	3.834	1.00	0.00
ATOM 123	2HB	PRO A	11	132.658	16.885	3.848	1.00	0.00

ATOM 124	1HG	PRO A	11	132.429	14.430	4.876	1.00	0.00
ATOM 125	2HG	PRO A	11	131.088	15.194	4.003	1.00	0.00
ATOM 126	1HD	PRO A	11	132.981	13.070	3.091	1.00	0.00
ATOM 127	2HD	PRO A	11	131.248	13.256	2.757	1.00	0.00
ATOM 128	N	PRO A	12	135.322	15.287	1.564	1.00	0.00
ATOM 129	CA	PRO A	12	136.681	15.479	1.054	1.00	0.00
ATOM 130	C	PRO A	12	136.793	15.157	-0.433	1.00	0.00
ATOM 131	O	PRO A	12	137.545	15.802	-1.162	1.00	0.00
ATOM 132	CB	PRO A	12	137.499	14.491	1.880	1.00	0.00
ATOM 133	CG	PRO A	12	136.553	13.379	2.178	1.00	0.00
ATOM 134	CD	PRO A	12	135.182	13.999	2.276	1.00	0.00
ATOM 135	HA	PRO A	12	137.034	16.484	1.233	1.00	0.00
ATOM 136	1HB	PRO A	12	138.346	14.149	1.303	1.00	0.00
ATOM 137	2HB	PRO A	12	137.843	14.970	2.785	1.00	0.00
ATOM 138	1HG	PRO A	12	136.578	12.654	1.379	1.00	0.00
ATOM 139	2HG	PRO A	12	136.821	12.913	3.115	1.00	0.00
ATOM 140	1HD	PRO A	12	134.453	13.369	1.790	1.00	0.00
ATOM 141	2HD	PRO A	12	134.916	14.157	3.310	1.00	0.00
ATOM 142	N	GLY A	13	136.040	14.155	-0.875	1.00	0.00
ATOM 143	CA	GLY A	13	136.070	13.766	-2.274	1.00	0.00
ATOM 144	C	GLY A	13	136.942	12.551	-2.519	1.00	0.00
ATOM 145	O	GLY A	13	137.708	12.513	-3.482	1.00	0.00
ATOM 146	H	GLY A	13	135.459	13.677	-0.248	1.00	0.00
ATOM 147	1HA	GLY A	13	135.063	13.544	-2.595	1.00	0.00
ATOM 148	2HA	GLY A	13	136.449	14.592	-2.857	1.00	0.00
ATOM 149	N	ASN A	14	136.825	11.556	-1.647	1.00	0.00
ATOM 150	CA	ASN A	14	137.610	10.332	-1.773	1.00	0.00
ATOM 151	C	ASN A	14	136.722	9.154	-2.163	1.00	0.00
ATOM 152	O	ASN A	14	135.495	9.265	-2.170	1.00	0.00

ATOM 153	CB	ASN A	14	138.334	10.028	-0.461	1.00	0.00
ATOM 154	CG	ASN A	14	139.513	10.951	-0.224	1.00	0.00
ATOM 155	OD1	ASN A	14	139.973	11.636	-1.137	1.00	0.00
ATOM 156	ND2	ASN A	14	140.010	10.973	1.008	1.00	0.00
ATOM 157	H	ASN A	14	136.197	11.645	-0.899	1.00	0.00
ATOM 158	HA	ASN A	14	138.343	10.487	-2.550	1.00	0.00
ATOM 159	1HB	ASN A	14	137.642	10.142	0.360	1.00	0.00
ATOM 160	2HB	ASN A	14	138.695	9.010	-0.484	1.00	0.00
ATOM 161	1HD2	ASN A	14	139.593	10.400	1.685	1.00	0.00
ATOM 162	2HD2	ASN A	14	140.773	11.561	1.189	1.00	0.00
ATOM 163	N	SER A	15	137.349	8.029	-2.486	1.00	0.00
ATOM 164	CA	SER A	15	136.615	6.831	-2.877	1.00	0.00
ATOM 165	C	SER A	15	135.895	6.219	-1.680	1.00	0.00
ATOM 166	O	SER A	15	136.454	5.388	-0.966	1.00	0.00
ATOM 167	CB	SER A	15	137.567	5.803	-3.493	1.00	0.00
ATOM 168	OG	SER A	15	137.683	5.990	-4.893	1.00	0.00
ATOM 169	H	SER A	15	138.329	8.003	-2.461	1.00	0.00
ATOM 170	HA	SER A	15	135.882	7.118	-3.615	1.00	0.00
ATOM 171	1HB	SER A	15	138.545	5.907	-3.047	1.00	0.00
ATOM 172	2HB	SER A	15	137.190	4.808	-3.306	1.00	0.00
ATOM 173	HG	SER A	15	138.354	5.400	-5.241	1.00	0.00
ATOM 174	N	HIS A	16	134.650	6.639	-1.469	1.00	0.00
ATOM 175	CA	HIS A	16	133.844	6.136	-0.358	1.00	0.00
ATOM 176	C	HIS A	16	134.419	6.586	0.982	1.00	0.00
ATOM 177	O	HIS A	16	133.836	7.427	1.667	1.00	0.00
ATOM 178	CB	HIS A	16	133.757	4.609	-0.406	1.00	0.00
ATOM 179	CG	HIS A	16	133.274	4.077	-1.718	1.00	0.00
ATOM 180	ND1	HIS A	16	132.095	3.374	-1.857	1.00	0.00
ATOM 181	CD2	HIS A	16	133.814	4.149	-2.958	1.00	0.00

ATOM 182	CE1	HIS A	16	131.933	3.035	-3.125	1.00	0.00
ATOM 183	NE2	HIS A	16	132.962	3.494	-3.813	1.00	0.00
ATOM 184	H	HIS A	16	134.262	7.303	-2.075	1.00	0.00
ATOM 185	HA	HIS A	16	132.851	6.547	-0.463	1.00	0.00
ATOM 186	1HB	HIS A	16	134.735	4.192	-0.220	1.00	0.00
ATOM 187	2HB	HIS A	16	133.077	4.271	0.362	1.00	0.00
ATOM 188	HD1	HIS A	16	131.470	3.155	-1.135	1.00	0.00
ATOM 189	HD2	HIS A	16	134.745	4.631	-3.225	1.00	0.00
ATOM 190	HE1	HIS A	16	131.101	2.479	-3.529	1.00	0.00
ATOM 191	HE2	HIS A	16	133.134	3.313	-4.760	1.00	0.00
ATOM 192	N	GLY A	17	135.564	6.022	1.351	1.00	0.00
ATOM 193	CA	GLY A	17	136.196	6.379	2.607	1.00	0.00
ATOM 194	C	GLY A	17	137.537	5.697	2.796	1.00	0.00
ATOM 195	O	GLY A	17	137.723	4.930	3.741	1.00	0.00
ATOM 196	H	GLY A	17	135.983	5.358	0.765	1.00	0.00
ATOM 197	1HA	GLY A	17	136.342	7.448	2.633	1.00	0.00
ATOM 198	2HA	GLY A	17	135.543	6.095	3.419	1.00	0.00
ATOM 199	N	LEU A	18	138.473	5.976	1.895	1.00	0.00
ATOM 200	CA	LEU A	18	139.804	5.384	1.966	1.00	0.00
ATOM 201	C	LEU A	18	140.828	6.406	2.448	1.00	0.00
ATOM 202	O	LEU A	18	141.251	7.280	1.691	1.00	0.00
ATOM 203	CB	LEU A	18	140.215	4.837	0.598	1.00	0.00
ATOM 204	CG	LEU A	18	139.384	3.655	0.096	1.00	0.00
ATOM 205	CD1	LEU A	18	139.678	3.382	-1.370	1.00	0.00
ATOM 206	CD2	LEU A	18	139.658	2.418	0.937	1.00	0.00
ATOM 207	H	LEU A	18	138.264	6.595	1.164	1.00	0.00
ATOM 208	HA	LEU A	18	139.766	4.569	2.673	1.00	0.00
ATOM 209	1HB	LEU A	18	140.138	5.638	-0.124	1.00	0.00
ATOM 210	2HB	LEU A	18	141.247	4.524	0.655	1.00	0.00

ATOM 211	HG	LEU A	18	138.335	3.897	0.187	1.00	0.00
ATOM 212	1HD1	LEU A	18	139.829	4.317	-1.888	1.00	0.00
ATOM 213	2HD1	LEU A	18	138.844	2.856	-1.812	1.00	0.00
ATOM 214	3HD1	LEU A	18	140.569	2.776	-1.452	1.00	0.00
ATOM 215	1HD2	LEU A	18	140.707	2.381	1.193	1.00	0.00
ATOM 216	2HD2	LEU A	18	139.394	1.534	0.375	1.00	0.00
ATOM 217	3HD2	LEU A	18	139.068	2.458	1.841	1.00	0.00
ATOM 218	N	GLU A	19	141.224	6.289	3.711	1.00	0.00
ATOM 219	CA	GLU A	19	142.200	7.202	4.294	1.00	0.00
ATOM 220	C	GLU A	19	143.132	6.464	5.249	1.00	0.00
ATOM 221	O	GLU A	19	142.949	5.275	5.516	1.00	0.00
ATOM 222	CB	GLU A	19	141.489	8.339	5.032	1.00	0.00
ATOM 223	CG	GLU A	19	140.515	7.858	6.094	1.00	0.00
ATOM 224	CD	GLU A	19	140.123	8.956	7.064	1.00	0.00
ATOM 225	OE1	GLU A	19	140.696	9.002	8.173	1.00	0.00
ATOM 226	OE2	GLU A	19	139.243	9.770	6.714	1.00	0.00
ATOM 227	H	GLU A	19	140.851	5.571	4.264	1.00	0.00
ATOM 228	HA	GLU A	19	142.786	7.619	3.489	1.00	0.00
ATOM 229	1HB	GLU A	19	142.232	8.962	5.510	1.00	0.00
ATOM 230	2HB	GLU A	19	140.942	8.931	4.314	1.00	0.00
ATOM 231	1HG	GLU A	19	139.623	7.493	5.608	1.00	0.00
ATOM 232	2HG	GLU A	19	140.975	7.055	6.650	1.00	0.00
ATOM 233	N	VAL A	20	144.131	7.174	5.761	1.00	0.00
ATOM 234	CA	VAL A	20	145.091	6.585	6.688	1.00	0.00
ATOM 235	C	VAL A	20	144.396	6.059	7.939	1.00	0.00
ATOM 236	O	VAL A	20	143.606	6.765	8.566	1.00	0.00
ATOM 237	CB	VAL A	20	146.169	7.603	7.102	1.00	0.00
ATOM 238	CG1	VAL A	20	147.263	6.925	7.911	1.00	0.00
ATOM 239	CG2	VAL A	20	146.753	8.291	5.876	1.00	0.00

ATOM 240	H	VAL A	20	144.225	8.117	5.511	1.00	0.00
ATOM 241	HA	VAL A	20	145.577	5.762	6.184	1.00	0.00
ATOM 242	HB	VAL A	20	145.707	8.355	7.723	1.00	0.00
ATOM 243	1HG1	VAL A	20	146.901	6.726	8.909	1.00	0.00
ATOM 244	2HG1	VAL A	20	148.127	7.571	7.963	1.00	0.00
ATOM 245	3HG1	VAL A	20	147.538	5.994	7.436	1.00	0.00
ATOM 246	1HG2	VAL A	20	146.901	7.563	5.091	1.00	0.00
ATOM 247	2HG2	VAL A	20	147.699	8.743	6.133	1.00	0.00
ATOM 248	3HG2	VAL A	20	146.070	9.056	5.534	1.00	0.00
ATOM 249	N	GLY A	21	144.697	4.815	8.297	1.00	0.00
ATOM 250	CA	GLY A	21	144.093	4.215	9.472	1.00	0.00
ATOM 251	C	GLY A	21	143.030	3.192	9.121	1.00	0.00
ATOM 252	O	GLY A	21	142.786	2.255	9.881	1.00	0.00
ATOM 253	H	GLY A	21	145.333	4.300	7.759	1.00	0.00
ATOM 254	1HA	GLY A	21	144.865	3.732	10.053	1.00	0.00
ATOM 255	2HA	GLY A	21	143.643	4.995	10.070	1.00	0.00
ATOM 256	N	SER A	22	142.395	3.373	7.967	1.00	0.00
ATOM 257	CA	SER A	22	141.352	2.458	7.518	1.00	0.00
ATOM 258	C	SER A	22	141.942	1.331	6.678	1.00	0.00
ATOM 259	O	SER A	22	143.029	1.465	6.115	1.00	0.00
ATOM 260	CB	SER A	22	140.297	3.214	6.710	1.00	0.00
ATOM 261	OG	SER A	22	139.734	4.272	7.466	1.00	0.00
ATOM 262	H	SER A	22	142.634	4.140	7.406	1.00	0.00
ATOM 263	HA	SER A	22	140.885	2.032	8.393	1.00	0.00
ATOM 264	1HB	SER A	22	140.753	3.627	5.822	1.00	0.00
ATOM 265	2HB	SER A	22	139.508	2.533	6.424	1.00	0.00
ATOM 266	HG	SER A	22	140.433	4.752	7.915	1.00	0.00
ATOM 267	N	LEU A	23	141.218	0.219	6.597	1.00	0.00
ATOM 268	CA	LEU A	23	141.669	-0.934	5.826	1.00	0.00

ATOM 269	C	LEU A	23	141.184	-0.848	4.382	1.00	0.00
ATOM 270	O	LEU A	23	140.137	-0.263	4.103	1.00	0.00
ATOM 271	CB	LEU A	23	141.171	-2.230	6.468	1.00	0.00
ATOM 272	CG	LEU A	23	141.497	-2.384	7.954	1.00	0.00
ATOM 273	CD1	LEU A	23	140.442	-3.232	8.646	1.00	0.00
ATOM 274	CD2	LEU A	23	142.878	-2.995	8.135	1.00	0.00
ATOM 275	H	LEU A	23	140.360	0.172	7.069	1.00	0.00
ATOM 276	HA	LEU A	23	142.750	-0.933	5.830	1.00	0.00
ATOM 277	1HB	LEU A	23	140.098	-2.276	6.348	1.00	0.00
ATOM 278	2HB	LEU A	23	141.610	-3.062	5.938	1.00	0.00
ATOM 279	HG	LEU A	23	141.499	-1.409	8.417	1.00	0.00
ATOM 280	1HD1	LEU A	23	140.296	-2.872	9.655	1.00	0.00
ATOM 281	2HD1	LEU A	23	140.769	-4.261	8.676	1.00	0.00
ATOM 282	3HD1	LEU A	23	139.512	-3.164	8.103	1.00	0.00
ATOM 283	1HD2	LEU A	23	142.787	-4.066	8.242	1.00	0.00
ATOM 284	2HD2	LEU A	23	143.341	-2.583	9.019	1.00	0.00
ATOM 285	3HD2	LEU A	23	143.487	-2.771	7.271	1.00	0.00
ATOM 286	N	ALA A	24	141.952	-1.432	3.469	1.00	0.00
ATOM 287	CA	ALA A	24	141.601	-1.421	2.054	1.00	0.00
ATOM 288	C	ALA A	24	142.116	-2.673	1.351	1.00	0.00
ATOM 289	O	ALA A	24	142.944	-3.405	1.892	1.00	0.00
ATOM 290	CB	ALA A	24	142.151	-0.172	1.384	1.00	0.00
ATOM 291	H	ALA A	24	142.775	-1.883	3.753	1.00	0.00
ATOM 292	HA	ALA A	24	140.523	-1.397	1.979	1.00	0.00
ATOM 293	1HB	ALA A	24	141.804	-0.130	0.362	1.00	0.00
ATOM 294	2HB	ALA A	24	143.231	-0.203	1.396	1.00	0.00
ATOM 295	3HB	ALA A	24	141.809	0.702	1.917	1.00	0.00
ATOM 296	N	GLU A	25	141.621	-2.911	0.140	1.00	0.00
ATOM 297	CA	GLU A	25	142.032	-4.073	-0.638	1.00	0.00

ATOM 298	C	GLU A	25	142.413	-3.670	-2.059	1.00	0.00
ATOM 299	O	GLU A	25	141.857	-2.724	-2.616	1.00	0.00
ATOM 300	CB	GLU A	25	140.909	-5.112	-0.675	1.00	0.00
ATOM 301	CG	GLU A	25	141.354	-6.471	-1.189	1.00	0.00
ATOM 302	CD	GLU A	25	140.264	-7.186	-1.963	1.00	0.00
ATOM 303	OE1	GLU A	25	140.483	-7.486	-3.156	1.00	0.00
ATOM 304	OE2	GLU A	25	139.193	-7.448	-1.377	1.00	0.00
ATOM 305	H	GLU A	25	140.964	-2.290	-0.238	1.00	0.00
ATOM 306	HA	GLU A	25	142.896	-4.507	-0.156	1.00	0.00
ATOM 307	1HB	GLU A	25	140.519	-5.238	0.324	1.00	0.00
ATOM 308	2HB	GLU A	25	140.121	-4.749	-1.316	1.00	0.00
ATOM 309	1HG	GLU A	25	142.206	-6.336	-1.839	1.00	0.00
ATOM 310	2HG	GLU A	25	141.639	-7.085	-0.346	1.00	0.00
ATOM 311	N	VAL A	26	143.365	-4.393	-2.639	1.00	0.00
ATOM 312	CA	VAL A	26	143.818	-4.111	-3.996	1.00	0.00
ATOM 313	C	VAL A	26	143.404	-5.220	-4.956	1.00	0.00
ATOM 314	O	VAL A	26	143.286	-6.381	-4.564	1.00	0.00
ATOM 315	CB	VAL A	26	145.348	-3.944	-4.054	1.00	0.00
ATOM 316	CG1	VAL A	26	145.781	-3.452	-5.427	1.00	0.00
ATOM 317	CG2	VAL A	26	145.824	-2.994	-2.964	1.00	0.00
ATOM 318	H	VAL A	26	143.770	-5.136	-2.145	1.00	0.00
ATOM 319	HA	VAL A	26	143.363	-3.184	-4.314	1.00	0.00
ATOM 320	HB	VAL A	26	145.803	-4.909	-3.884	1.00	0.00
ATOM 321	1HG1	VAL A	26	146.067	-4.295	-6.038	1.00	0.00
ATOM 322	2HG1	VAL A	26	146.621	-2.781	-5.321	1.00	0.00
ATOM 323	3HG1	VAL A	26	144.960	-2.929	-5.897	1.00	0.00
ATOM 324	1HG2	VAL A	26	145.567	-3.399	-1.997	1.00	0.00
ATOM 325	2HG2	VAL A	26	145.347	-2.033	-3.091	1.00	0.00
ATOM 326	3HG2	VAL A	26	146.895	-2.875	-3.033	1.00	0.00

ATOM 327	N	LYS A	27	143.181	-4.855	-6.214	1.00	0.00
ATOM 328	CA	LYS A	27	142.779	-5.820	-7.230	1.00	0.00
ATOM 329	C	LYS A	27	143.997	-6.413	-7.931	1.00	0.00
ATOM 330	O	LYS A	27	144.477	-5.869	-8.926	1.00	0.00
ATOM 331	CB	LYS A	27	141.857	-5.158	-8.255	1.00	0.00
ATOM 332	CG	LYS A	27	141.362	-6.110	-9.332	1.00	0.00
ATOM 333	CD	LYS A	27	140.993	-5.366	-10.605	1.00	0.00
ATOM 334	CE	LYS A	27	139.489	-5.171	-10.721	1.00	0.00
ATOM 335	NZ	LYS A	27	138.857	-6.224	-11.562	1.00	0.00
ATOM 336	H	LYS A	27	143.291	-3.914	-6.465	1.00	0.00
ATOM 337	HA	LYS A	27	142.241	-6.616	-6.736	1.00	0.00
ATOM 338	1HB	LYS A	27	140.998	-4.753	-7.741	1.00	0.00
ATOM 339	2HB	LYS A	27	142.392	-4.352	-8.735	1.00	0.00
ATOM 340	1HG	LYS A	27	142.143	-6.821	-9.557	1.00	0.00
ATOM 341	2HG	LYS A	27	140.492	-6.633	-8.965	1.00	0.00
ATOM 342	1HD	LYS A	27	141.472	-4.398	-10.598	1.00	0.00
ATOM 343	2HD	LYS A	27	141.340	-5.934	-11.456	1.00	0.00
ATOM 344	1HE	LYS A	27	139.059	-5.204	-9.732	1.00	0.00
ATOM 345	2HE	LYS A	27	139.298	-4.204	-11.164	1.00	0.00
ATOM 346	1HZ	LYS A	27	139.514	-6.530	-12.307	1.00	0.00
ATOM 347	2HZ	LYS A	27	137.993	-5.854	-12.008	1.00	0.00
ATOM 348	3HZ	LYS A	27	138.606	-7.046	-10.976	1.00	0.00
ATOM 349	N	GLU A	28	144.491	-7.528	-7.406	1.00	0.00
ATOM 350	CA	GLU A	28	145.652	-8.196	-7.982	1.00	0.00
ATOM 351	C	GLU A	28	145.452	-9.707	-8.012	1.00	0.00
ATOM 352	O	GLU A	28	144.372	-10.206	-7.696	1.00	0.00
ATOM 353	CB	GLU A	28	146.913	-7.849	-7.187	1.00	0.00
ATOM 354	CG	GLU A	28	148.072	-7.381	-8.054	1.00	0.00
ATOM 355	CD	GLU A	28	149.197	-8.396	-8.122	1.00	0.00

ATOM 356	OE1	GLU A	28	149.946	-8.520	-7.131	1.00	0.00
ATOM 357	OE2	GLU A	28	149.328	-9.067	-9.168	1.00	0.00
ATOM 358	H	GLU A	28	144.064	-7.914	-6.613	1.00	0.00
ATOM 359	HA	GLU A	28	145.769	-7.841	-8.996	1.00	0.00
ATOM 360	1HB	GLU A	28	146.677	-7.063	-6.485	1.00	0.00
ATOM 361	2HB	GLU A	28	147.232	-8.724	-6.637	1.00	0.00
ATOM 362	1HG	GLU A	28	147.705	-7.205	-9.055	1.00	0.00
ATOM 363	2HG	GLU A	28	148.461	-6.460	-7.646	1.00	0.00
ATOM 364	N	ASN A	29	146.499	-10.431	-8.393	1.00	0.00
ATOM 365	CA	ASN A	29	146.438	-11.886	-8.463	1.00	0.00
ATOM 366	C	ASN A	29	146.389	-12.496	-7.064	1.00	0.00
ATOM 367	O	ASN A	29	145.446	-13.209	-6.723	1.00	0.00
ATOM 368	CB	ASN A	29	147.643	-12.432	-9.232	1.00	0.00
ATOM 369	CG	ASN A	29	147.314	-12.736	-10.680	1.00	0.00
ATOM 370	OD1	ASN A	29	147.172	-13.897	-11.066	1.00	0.00
ATOM 371	ND2	ASN A	29	147.191	-11.693	-11.491	1.00	0.00
ATOM 372	H	ASN A	29	147.333	-9.976	-8.632	1.00	0.00
ATOM 373	HA	ASN A	29	145.535	-12.153	-8.990	1.00	0.00
ATOM 374	1HB	ASN A	29	148.437	-11.702	-9.209	1.00	0.00
ATOM 375	2HB	ASN A	29	147.983	-13.342	-8.760	1.00	0.00
ATOM 376	1HD2	ASN A	29	147.318	-10.797	-11.114	1.00	0.00
ATOM 377	2HD2	ASN A	29	146.979	-11.860	-12.433	1.00	0.00
ATOM 378	N	PRO A	30	147.409	-12.221	-6.232	1.00	0.00
ATOM 379	CA	PRO A	30	147.478	-12.745	-4.866	1.00	0.00
ATOM 380	C	PRO A	30	146.589	-11.964	-3.899	1.00	0.00
ATOM 381	O	PRO A	30	146.864	-10.804	-3.593	1.00	0.00
ATOM 382	CB	PRO A	30	148.950	-12.559	-4.504	1.00	0.00
ATOM 383	CG	PRO A	30	149.375	-11.360	-5.279	1.00	0.00
ATOM 384	CD	PRO A	30	148.576	-11.377	-6.557	1.00	0.00

ATOM 385	HA	PRO A	30	147.224	-13.794	-4.829	1.00	0.00
ATOM 386	1HB	PRO A	30	149.045	-12.398	-3.440	1.00	0.00
ATOM 387	2HB	PRO A	30	149.510	-13.435	-4.795	1.00	0.00
ATOM 388	1HG	PRO A	30	149.160	-10.464	-4.715	1.00	0.00
ATOM 389	2HG	PRO A	30	150.431	-11.421	-5.498	1.00	0.00
ATOM 390	1HD	PRO A	30	148.266	-10.377	-6.820	1.00	0.00
ATOM 391	2HD	PRO A	30	149.155	-11.815	-7.357	1.00	0.00
ATOM 392	N	PRO A	31	145.506	-12.589	-3.400	1.00	0.00
ATOM 393	CA	PRO A	31	144.582	-11.938	-2.465	1.00	0.00
ATOM 394	C	PRO A	31	145.273	-11.512	-1.174	1.00	0.00
ATOM 395	O	PRO A	31	145.292	-12.256	-0.194	1.00	0.00
ATOM 396	CB	PRO A	31	143.530	-13.017	-2.176	1.00	0.00
ATOM 397	CG	PRO A	31	143.649	-13.986	-3.302	1.00	0.00
ATOM 398	CD	PRO A	31	145.095	-13.970	-3.704	1.00	0.00
ATOM 399	HA	PRO A	31	144.106	-11.078	-2.915	1.00	0.00
ATOM 400	1HB	PRO A	31	143.743	-13.486	-1.228	1.00	0.00
ATOM 401	2HB	PRO A	31	142.549	-12.566	-2.148	1.00	0.00
ATOM 402	1HG	PRO A	31	143.363	-14.973	-2.970	1.00	0.00
ATOM 403	2HG	PRO A	31	143.027	-13.671	-4.127	1.00	0.00
ATOM 404	1HD	PRO A	31	145.659	-14.680	-3.117	1.00	0.00
ATOM 405	2HD	PRO A	31	145.197	-14.180	-4.758	1.00	0.00
ATOM 406	N	PHE A	32	145.839	-10.310	-1.180	1.00	0.00
ATOM 407	CA	PHE A	32	146.531	-9.786	-0.008	1.00	0.00
ATOM 408	C	PHE A	32	145.739	-8.650	0.630	1.00	0.00
ATOM 409	O	PHE A	32	145.153	-7.821	-0.066	1.00	0.00
ATOM 410	CB	PHE A	32	147.929	-9.295	-0.391	1.00	0.00
ATOM 411	CG	PHE A	32	147.920	-8.172	-1.387	1.00	0.00
ATOM 412	CD1	PHE A	32	147.563	-6.890	-1.002	1.00	0.00
ATOM 413	CD2	PHE A	32	148.269	-8.398	-2.709	1.00	0.00

ATOM 414	CE1	PHE A	32	147.554	-5.853	-1.915	1.00	0.00
ATOM 415	CE2	PHE A	32	148.262	-7.364	-3.628	1.00	0.00
ATOM 416	CZ	PHE A	32	147.904	-6.091	-3.231	1.00	0.00
ATOM 417	H	PHE A	32	145.790	-9.762	-1.991	1.00	0.00
ATOM 418	HA	PHE A	32	146.625	-10.588	0.707	1.00	0.00
ATOM 419	1HB	PHE A	32	148.435	-8.947	0.496	1.00	0.00
ATOM 420	2HB	PHE A	32	148.486	-10.117	-0.819	1.00	0.00
ATOM 421	HD1	PHE A	32	147.289	-6.702	0.026	1.00	0.00
ATOM 422	HD2	PHE A	32	148.549	-9.392	-3.020	1.00	0.00
ATOM 423	HE1	PHE A	32	147.273	-4.858	-1.603	1.00	0.00
ATOM 424	HE2	PHE A	32	148.536	-7.553	-4.656	1.00	0.00
ATOM 425	HZ	PHE A	32	147.898	-5.283	-3.946	1.00	0.00
ATOM 426	N	TYR A	33	145.726	-8.618	1.958	1.00	0.00
ATOM 427	CA	TYR A	33	145.008	-7.584	2.692	1.00	0.00
ATOM 428	C	TYR A	33	145.978	-6.652	3.409	1.00	0.00
ATOM 429	O	TYR A	33	147.068	-7.062	3.809	1.00	0.00
ATOM 430	CB	TYR A	33	144.051	-8.218	3.703	1.00	0.00
ATOM 431	CG	TYR A	33	142.678	-8.509	3.140	1.00	0.00
ATOM 432	CD1	TYR A	33	142.103	-9.766	3.278	1.00	0.00
ATOM 433	CD2	TYR A	33	141.958	-7.528	2.471	1.00	0.00
ATOM 434	CE1	TYR A	33	140.848	-10.037	2.766	1.00	0.00
ATOM 435	CE2	TYR A	33	140.703	-7.790	1.956	1.00	0.00
ATOM 436	CZ	TYR A	33	140.153	-9.046	2.105	1.00	0.00
ATOM 437	OH	TYR A	33	138.903	-9.311	1.594	1.00	0.00
ATOM 438	H	TYR A	33	146.213	-9.306	2.456	1.00	0.00
ATOM 439	HA	TYR A	33	144.434	-7.008	1.980	1.00	0.00
ATOM 440	1HB	TYR A	33	144.471	-9.150	4.050	1.00	0.00
ATOM 441	2HB	TYR A	33	143.931	-7.549	4.543	1.00	0.00
ATOM 442	HD1	TYR A	33	142.649	-10.540	3.797	1.00	0.00

ATOM 443	HD2	TYR A	33	142.392	-6.546	2.355	1.00	0.00
ATOM 444	HE1	TYR A	33	140.417	-11.020	2.884	1.00	0.00
ATOM 445	HE2	TYR A	33	140.158	-7.014	1.438	1.00	0.00
ATOM 446	HH	TYR A	33	138.373	-9.756	2.258	1.00	0.00
ATOM 447	N	GLY A	34	145.577	-5.394	3.566	1.00	0.00
ATOM 448	CA	GLY A	34	146.424	-4.424	4.235	1.00	0.00
ATOM 449	C	GLY A	34	145.652	-3.209	4.709	1.00	0.00
ATOM 450	O	GLY A	34	144.432	-3.140	4.555	1.00	0.00
ATOM 451	H	GLY A	34	144.699	-5.123	3.226	1.00	0.00
ATOM 452	1HA	GLY A	34	146.889	-4.896	5.087	1.00	0.00
ATOM 453	2HA	GLY A	34	147.195	-4.103	3.550	1.00	0.00
ATOM 454	N	VAL A	35	146.364	-2.247	5.288	1.00	0.00
ATOM 455	CA	VAL A	35	145.739	-1.029	5.787	1.00	0.00
ATOM 456	C	VAL A	35	146.436	0.210	5.232	1.00	0.00
ATOM 457	O	VAL A	35	147.649	0.213	5.028	1.00	0.00
ATOM 458	CB	VAL A	35	145.761	-0.977	7.327	1.00	0.00
ATOM 459	CG1	VAL A	35	147.192	-0.974	7.845	1.00	0.00
ATOM 460	CG2	VAL A	35	145.000	0.239	7.834	1.00	0.00
ATOM 461	H	VAL A	35	147.333	-2.361	5.381	1.00	0.00
ATOM 462	HA	VAL A	35	144.708	-1.026	5.461	1.00	0.00
ATOM 463	HB	VAL A	35	145.270	-1.863	7.703	1.00	0.00
ATOM 464	1HG1	VAL A	35	147.184	-0.984	8.926	1.00	0.00
ATOM 465	2HG1	VAL A	35	147.698	-0.086	7.498	1.00	0.00
ATOM 466	3HG1	VAL A	35	147.708	-1.850	7.481	1.00	0.00
ATOM 467	1HG2	VAL A	35	145.345	1.122	7.317	1.00	0.00
ATOM 468	2HG2	VAL A	35	145.169	0.353	8.895	1.00	0.00
ATOM 469	3HG2	VAL A	35	143.944	0.105	7.651	1.00	0.00
ATOM 470	N	ILE A	36	145.659	1.262	4.991	1.00	0.00
ATOM 471	CA	ILE A	36	146.203	2.507	4.461	1.00	0.00

ATOM 472	C	ILE A	36	147.159	3.153	5.458	1.00	0.00
ATOM 473	O	ILE A	36	146.910	3.152	6.663	1.00	0.00
ATOM 474	CB	ILE A	36	145.084	3.507	4.112	1.00	0.00
ATOM 475	CG1	ILE A	36	144.038	2.845	3.214	1.00	0.00
ATOM 476	CG2	ILE A	36	145.667	4.740	3.436	1.00	0.00
ATOM 477	CD1	ILE A	36	142.906	3.770	2.818	1.00	0.00
ATOM 478	H	ILE A	36	144.698	1.199	5.175	1.00	0.00
ATOM 479	HA	ILE A	36	146.745	2.274	3.556	1.00	0.00
ATOM 480	HB	ILE A	36	144.612	3.821	5.032	1.00	0.00
ATOM 481	1HG1	ILE A	36	144.516	2.501	2.309	1.00	0.00
ATOM 482	2HG1	ILE A	36	143.610	2.000	3.732	1.00	0.00
ATOM 483	1HG2	ILE A	36	144.865	5.398	3.135	1.00	0.00
ATOM 484	2HG2	ILE A	36	146.232	4.440	2.566	1.00	0.00
ATOM 485	3HG2	ILE A	36	146.316	5.256	4.127	1.00	0.00
ATOM 486	1HD1	ILE A	36	143.176	4.788	3.054	1.00	0.00
ATOM 487	2HD1	ILE A	36	142.013	3.498	3.361	1.00	0.00
ATOM 488	3HD1	ILE A	36	142.725	3.682	1.756	1.00	0.00
ATOM 489	N	ARG A	37	148.255	3.705	4.945	1.00	0.00
ATOM 490	CA	ARG A	37	149.250	4.355	5.790	1.00	0.00
ATOM 491	C	ARG A	37	149.509	5.785	5.323	1.00	0.00
ATOM 492	O	ARG A	37	149.278	6.741	6.061	1.00	0.00
ATOM 493	CB	ARG A	37	150.555	3.558	5.781	1.00	0.00
ATOM 494	CG	ARG A	37	150.360	2.068	6.015	1.00	0.00
ATOM 495	CD	ARG A	37	149.771	1.793	7.390	1.00	0.00
ATOM 496	NE	ARG A	37	150.664	2.224	8.463	1.00	0.00
ATOM 497	CZ	ARG A	37	150.430	2.003	9.755	1.00	0.00
ATOM 498	NH1	ARG A	37	149.334	1.359	10.137	1.00	0.00
ATOM 499	NH2	ARG A	37	151.293	2.429	10.667	1.00	0.00
ATOM 500	H	ARG A	37	148.396	3.673	3.976	1.00	0.00

ATOM 501	HA	ARG A	37	148.862	4.384	6.797	1.00	0.00
ATOM 502	1HB	ARG A	37	151.038	3.690	4.824	1.00	0.00
ATOM 503	2HB	ARG A	37	151.201	3.940	6.556	1.00	0.00
ATOM 504	1HG	ARG A	37	149.688	1.680	5.264	1.00	0.00
ATOM 505	2HG	ARG A	37	151.316	1.573	5.937	1.00	0.00
ATOM 506	1HD	ARG A	37	148.835	2.323	7.480	1.00	0.00
ATOM 507	2HD	ARG A	37	149.595	0.731	7.485	1.00	0.00
ATOM 508	HE	ARG A	37	151.480	2.703	8.209	1.00	0.00
ATOM 509	1HH1	ARG A	37	148.679	1.035	9.455	1.00	0.00
ATOM 510	2HH1	ARG A	37	149.165	1.195	11.109	1.00	0.00
ATOM 511	1HH2	ARG A	37	152.120	2.915	10.384	1.00	0.00
ATOM 512	2HH2	ARG A	37	151.118	2.264	11.637	1.00	0.00
ATOM 513	N	TRP A	38	149.992	5.923	4.091	1.00	0.00
ATOM 514	CA	TRP A	38	150.282	7.236	3.528	1.00	0.00
ATOM 515	C	TRP A	38	149.598	7.413	2.174	1.00	0.00
ATOM 516	O	TRP A	38	149.676	6.542	1.309	1.00	0.00
ATOM 517	CB	TRP A	38	151.795	7.432	3.381	1.00	0.00
ATOM 518	CG	TRP A	38	152.166	8.645	2.578	1.00	0.00
ATOM 519	CD1	TRP A	38	152.399	9.903	3.052	1.00	0.00
ATOM 520	CD2	TRP A	38	152.339	8.712	1.157	1.00	0.00
ATOM 521	NE1	TRP A	38	152.706	10.749	2.013	1.00	0.00
ATOM 522	CE2	TRP A	38	152.675	10.041	0.840	1.00	0.00
ATOM 523	CE3	TRP A	38	152.241	7.776	0.124	1.00	0.00
ATOM 524	CZ2	TRP A	38	152.916	10.455	-0.468	1.00	0.00
ATOM 525	CZ3	TRP A	38	152.480	8.189	-1.174	1.00	0.00
ATOM 526	CH2	TRP A	38	152.814	9.518	-1.460	1.00	0.00
ATOM 527	H	TRP A	38	150.156	5.122	3.550	1.00	0.00
ATOM 528	HA	TRP A	38	149.897	7.980	4.210	1.00	0.00
ATOM 529	1HB	TRP A	38	152.234	7.537	4.362	1.00	0.00

ATOM 530	2HB	TRP A	38	152.217	6.567	2.893	1.00	0.00
ATOM 531	HD1	TRP A	38	152.346	10.181	4.094	1.00	0.00
ATOM 532	HE1	TRP A	38	152.914	11.703	2.097	1.00	0.00
ATOM 533	HE3	TRP A	38	151.985	6.747	0.325	1.00	0.00
ATOM 534	HZ2	TRP A	38	153.170	11.477	-0.706	1.00	0.00
ATOM 535	HZ3	TRP A	38	152.409	7.479	-1.985	1.00	0.00
ATOM 536	HH2	TRP A	38	152.991	9.796	-2.489	1.00	0.00
ATOM 537	N	ILE A	39	148.938	8.552	2.000	1.00	0.00
ATOM 538	CA	ILE A	39	148.248	8.854	0.752	1.00	0.00
ATOM 539	C	ILE A	39	148.745	10.172	0.170	1.00	0.00
ATOM 540	O	ILE A	39	148.421	11.247	0.676	1.00	0.00
ATOM 541	CB	ILE A	39	146.722	8.938	0.956	1.00	0.00
ATOM 542	CG1	ILE A	39	146.221	7.736	1.761	1.00	0.00
ATOM 543	CG2	ILE A	39	146.013	9.017	-0.388	1.00	0.00
ATOM 544	CD1	ILE A	39	145.393	8.123	2.967	1.00	0.00
ATOM 545	H	ILE A	39	148.919	9.208	2.727	1.00	0.00
ATOM 546	HA	ILE A	39	148.456	8.059	0.052	1.00	0.00
ATOM 547	HB	ILE A	39	146.505	9.844	1.502	1.00	0.00
ATOM 548	1HG1	ILE A	39	145.610	7.113	1.126	1.00	0.00
ATOM 549	2HG1	ILE A	39	147.069	7.164	2.110	1.00	0.00
ATOM 550	1HG2	ILE A	39	145.966	10.047	-0.710	1.00	0.00
ATOM 551	2HG2	ILE A	39	145.012	8.625	-0.290	1.00	0.00
ATOM 552	3HG2	ILE A	39	146.559	8.436	-1.118	1.00	0.00
ATOM 553	1HD1	ILE A	39	145.869	8.941	3.485	1.00	0.00
ATOM 554	2HD1	ILE A	39	145.310	7.276	3.633	1.00	0.00
ATOM 555	3HD1	ILE A	39	144.407	8.424	2.645	1.00	0.00
ATOM 556	N	GLY A	40	149.540	10.085	-0.892	1.00	0.00
ATOM 557	CA	GLY A	40	150.072	11.282	-1.515	1.00	0.00
ATOM 558	C	GLY A	40	150.651	11.019	-2.891	1.00	0.00

ATOM 559	O	GLY A	40	150.491	9.932	-3.444	1.00	0.00
ATOM 560	H	GLY A	40	149.770	9.203	-1.251	1.00	0.00
ATOM 561	1HA	GLY A	40	149.282	12.010	-1.603	1.00	0.00
ATOM 562	2HA	GLY A	40	150.847	11.687	-0.883	1.00	0.00
ATOM 563	N	GLN A	41	151.325	12.023	-3.443	1.00	0.00
ATOM 564	CA	GLN A	41	151.933	11.908	-4.762	1.00	0.00
ATOM 565	C	GLN A	41	153.415	12.277	-4.707	1.00	0.00
ATOM 566	O	GLN A	41	153.765	13.423	-4.426	1.00	0.00
ATOM 567	CB	GLN A	41	151.204	12.816	-5.752	1.00	0.00
ATOM 568	CG	GLN A	41	149.691	12.670	-5.711	1.00	0.00
ATOM 569	CD	GLN A	41	148.975	14.000	-5.846	1.00	0.00
ATOM 570	OE1	GLN A	41	148.930	14.793	-4.906	1.00	0.00
ATOM 571	NE2	GLN A	41	148.410	14.250	-7.021	1.00	0.00
ATOM 572	H	GLN A	41	151.414	12.865	-2.949	1.00	0.00
ATOM 573	HA	GLN A	41	151.835	10.884	-5.086	1.00	0.00
ATOM 574	1HB	GLN A	41	151.451	13.842	-5.527	1.00	0.00
ATOM 575	2HB	GLN A	41	151.540	12.584	-6.751	1.00	0.00
ATOM 576	1HG	GLN A	41	149.380	12.029	-6.521	1.00	0.00
ATOM 577	2HG	GLN A	41	149.411	12.222	-4.769	1.00	0.00
ATOM 578	1HE2	GLN A	41	148.486	13.573	-7.725	1.00	0.00
ATOM 579	2HE2	GLN A	41	147.940	15.102	-7.137	1.00	0.00
ATOM 580	N	PRO A	42	154.311	11.309	-4.972	1.00	0.00
ATOM 581	CA	PRO A	42	155.758	11.547	-4.946	1.00	0.00
ATOM 582	C	PRO A	42	156.179	12.657	-5.905	1.00	0.00
ATOM 583	O	PRO A	42	155.455	12.987	-6.843	1.00	0.00
ATOM 584	CB	PRO A	42	156.356	10.207	-5.388	1.00	0.00
ATOM 585	CG	PRO A	42	155.296	9.203	-5.095	1.00	0.00
ATOM 586	CD	PRO A	42	153.991	9.911	-5.315	1.00	0.00
ATOM 587	HA	PRO A	42	156.101	11.786	-3.950	1.00	0.00

ATOM 588	1HB	PRO A	42	156.586	10.244	-6.442	1.00	0.00
ATOM 589	2HB	PRO A	42	157.254	10.008	-4.823	1.00	0.00
ATOM 590	1HG	PRO A	42	155.387	8.364	-5.771	1.00	0.00
ATOM 591	2HG	PRO A	42	155.375	8.871	-4.071	1.00	0.00
ATOM 592	1HD	PRO A	42	153.684	9.827	-6.348	1.00	0.00
ATOM 593	2HD	PRO A	42	153.231	9.517	-4.658	1.00	0.00
ATOM 594	N	PRO A	43	157.363	13.249	-5.679	1.00	0.00
ATOM 595	CA	PRO A	43	157.881	14.326	-6.528	1.00	0.00
ATOM 596	C	PRO A	43	158.324	13.821	-7.895	1.00	0.00
ATOM 597	O	PRO A	43	159.493	13.486	-8.095	1.00	0.00
ATOM 598	CB	PRO A	43	159.080	14.853	-5.743	1.00	0.00
ATOM 599	CG	PRO A	43	159.531	13.697	-4.917	1.00	0.00
ATOM 600	CD	PRO A	43	158.291	12.915	-4.581	1.00	0.00
ATOM 601	HA	PRO A	43	157.153	15.114	-6.654	1.00	0.00
ATOM 602	1HB	PRO A	43	159.849	15.170	-6.431	1.00	0.00
ATOM 603	2HB	PRO A	43	158.775	15.683	-5.125	1.00	0.00
ATOM 604	1HG	PRO A	43	160.217	13.087	-5.485	1.00	0.00
ATOM 605	2HG	PRO A	43	160.005	14.054	-4.015	1.00	0.00
ATOM 606	1HD	PRO A	43	158.506	11.856	-4.567	1.00	0.00
ATOM 607	2HD	PRO A	43	157.891	13.232	-3.630	1.00	0.00
ATOM 608	N	GLY A	44	157.387	13.768	-8.834	1.00	0.00
ATOM 609	CA	GLY A	44	157.705	13.303	-10.169	1.00	0.00
ATOM 610	C	GLY A	44	156.484	12.809	-10.918	1.00	0.00
ATOM 611	O	GLY A	44	156.229	13.226	-12.047	1.00	0.00
ATOM 612	H	GLY A	44	156.473	14.047	-8.617	1.00	0.00
ATOM 613	1HA	GLY A	44	158.149	14.114	-10.725	1.00	0.00
ATOM 614	2HA	GLY A	44	158.419	12.496	-10.097	1.00	0.00
ATOM 615	N	LEU A	45	155.725	11.918	-10.287	1.00	0.00
ATOM 616	CA	LEU A	45	154.523	11.370	-10.904	1.00	0.00

ATOM 617	C	LEU A	45	153.295	11.657	-10.050	1.00	0.00
ATOM 618	O	LEU A	45	153.164	11.135	-8.943	1.00	0.00
ATOM 619	CB	LEU A	45	154.673	9.861	-11.111	1.00	0.00
ATOM 620	CG	LEU A	45	155.191	9.090	-9.896	1.00	0.00
ATOM 621	CD1	LEU A	45	154.827	7.615	-10.002	1.00	0.00
ATOM 622	CD2	LEU A	45	156.697	9.266	-9.756	1.00	0.00
ATOM 623	H	LEU A	45	155.978	11.626	-9.384	1.00	0.00
ATOM 624	HA	LEU A	45	154.398	11.845	-11.866	1.00	0.00
ATOM 625	1HB	LEU A	45	153.707	9.460	-11.383	1.00	0.00
ATOM 626	2HB	LEU A	45	155.357	9.697	-11.931	1.00	0.00
ATOM 627	HG	LEU A	45	154.723	9.484	-9.004	1.00	0.00
ATOM 628	1HD1	LEU A	45	154.218	7.455	-10.880	1.00	0.00
ATOM 629	2HD1	LEU A	45	154.275	7.317	-9.123	1.00	0.00
ATOM 630	3HD1	LEU A	45	155.729	7.025	-10.079	1.00	0.00
ATOM 631	1HD2	LEU A	45	157.159	8.306	-9.582	1.00	0.00
ATOM 632	2HD2	LEU A	45	156.906	9.922	-8.925	1.00	0.00
ATOM 633	3HD2	LEU A	45	157.095	9.697	-10.664	1.00	0.00
ATOM 634	N	ASN A	46	152.396	12.487	-10.566	1.00	0.00
ATOM 635	CA	ASN A	46	151.182	12.831	-9.837	1.00	0.00
ATOM 636	C	ASN A	46	150.210	11.656	-9.839	1.00	0.00
ATOM 637	O	ASN A	46	149.608	11.335	-10.863	1.00	0.00
ATOM 638	CB	ASN A	46	150.518	14.060	-10.460	1.00	0.00
ATOM 639	CG	ASN A	46	149.756	14.885	-9.442	1.00	0.00
ATOM 640	OD1	ASN A	46	148.535	15.019	-9.523	1.00	0.00
ATOM 641	ND2	ASN A	46	150.475	15.444	-8.476	1.00	0.00
ATOM 642	H	ASN A	46	152.550	12.874	-11.453	1.00	0.00
ATOM 643	HA	ASN A	46	151.457	13.056	-8.818	1.00	0.00
ATOM 644	1HB	ASN A	46	151.277	14.685	-10.906	1.00	0.00
ATOM 645	2HB	ASN A	46	149.827	13.738	-11.227	1.00	0.00

ATOM 646	1HD2	ASN	A	46	151.443	15.294	-8.474	1.00	0.00
ATOM 647	2HD2	ASN	A	46	150.008	15.982	-7.803	1.00	0.00
ATOM 648	N	GLU	A	47	150.065	11.019	-8.683	1.00	0.00
ATOM 649	CA	GLU	A	47	149.170	9.877	-8.543	1.00	0.00
ATOM 650	C	GLU	A	47	148.942	9.545	-7.073	1.00	0.00
ATOM 651	O	GLU	A	47	149.887	9.254	-6.341	1.00	0.00
ATOM 652	CB	GLU	A	47	149.741	8.657	-9.270	1.00	0.00
ATOM 653	CG	GLU	A	47	151.249	8.512	-9.129	1.00	0.00
ATOM 654	CD	GLU	A	47	151.835	7.534	-10.128	1.00	0.00
ATOM 655	OE1	GLU	A	47	152.125	6.385	-9.733	1.00	0.00
ATOM 656	OE2	GLU	A	47	152.005	7.916	-11.304	1.00	0.00
ATOM 657	H	GLU	A	47	150.576	11.322	-7.903	1.00	0.00
ATOM 658	HA	GLU	A	47	148.224	10.141	-8.991	1.00	0.00
ATOM 659	1HB	GLU	A	47	149.278	7.766	-8.872	1.00	0.00
ATOM 660	2HB	GLU	A	47	149.506	8.736	-10.320	1.00	0.00
ATOM 661	1HG	GLU	A	47	151.706	9.477	-9.283	1.00	0.00
ATOM 662	2HG	GLU	A	47	151.475	8.164	-8.132	1.00	0.00
ATOM 663	N	VAL	A	48	147.686	9.586	-6.647	1.00	0.00
ATOM 664	CA	VAL	A	48	147.346	9.281	-5.263	1.00	0.00
ATOM 665	C	VAL	A	48	147.678	7.831	-4.933	1.00	0.00
ATOM 666	O	VAL	A	48	146.921	6.919	-5.267	1.00	0.00
ATOM 667	CB	VAL	A	48	145.854	9.534	-4.978	1.00	0.00
ATOM 668	CG1	VAL	A	48	145.566	9.417	-3.490	1.00	0.00
ATOM 669	CG2	VAL	A	48	145.432	10.897	-5.505	1.00	0.00
ATOM 670	H	VAL	A	48	146.971	9.820	-7.275	1.00	0.00
ATOM 671	HA	VAL	A	48	147.931	9.929	-4.625	1.00	0.00
ATOM 672	HB	VAL	A	48	145.277	8.779	-5.493	1.00	0.00
ATOM 673	1HG1	VAL	A	48	144.569	9.780	-3.286	1.00	0.00
ATOM 674	2HG1	VAL	A	48	146.283	10.006	-2.937	1.00	0.00

ATOM 675	3HG1	VAL A	48	145.640	8.383	-3.189	1.00	0.00
ATOM 676	1HG2	VAL A	48	145.318	10.849	-6.578	1.00	0.00
ATOM 677	2HG2	VAL A	48	146.187	11.628	-5.256	1.00	0.00
ATOM 678	3HG2	VAL A	48	144.492	11.182	-5.056	1.00	0.00
ATOM 679	N	LEU A	49	148.816	7.624	-4.281	1.00	0.00
ATOM 680	CA	LEU A	49	149.250	6.283	-3.909	1.00	0.00
ATOM 681	C	LEU A	49	149.076	6.055	-2.413	1.00	0.00
ATOM 682	O	LEU A	49	149.743	6.692	-1.597	1.00	0.00
ATOM 683	CB	LEU A	49	150.712	6.068	-4.304	1.00	0.00
ATOM 684	CG	LEU A	49	150.984	6.063	-5.809	1.00	0.00
ATOM 685	CD1	LEU A	49	152.453	6.335	-6.087	1.00	0.00
ATOM 686	CD2	LEU A	49	150.560	4.737	-6.421	1.00	0.00
ATOM 687	H	LEU A	49	149.378	8.391	-4.041	1.00	0.00
ATOM 688	HA	LEU A	49	148.634	5.576	-4.443	1.00	0.00
ATOM 689	1HB	LEU A	49	151.303	6.853	-3.854	1.00	0.00
ATOM 690	2HB	LEU A	49	151.036	5.121	-3.899	1.00	0.00
ATOM 691	HG	LEU A	49	150.405	6.847	-6.275	1.00	0.00
ATOM 692	1HD1	LEU A	49	152.547	6.928	-6.984	1.00	0.00
ATOM 693	2HD1	LEU A	49	152.975	5.398	-6.218	1.00	0.00
ATOM 694	3HD1	LEU A	49	152.884	6.872	-5.254	1.00	0.00
ATOM 695	1HD2	LEU A	49	149.544	4.813	-6.778	1.00	0.00
ATOM 696	2HD2	LEU A	49	150.622	3.959	-5.675	1.00	0.00
ATOM 697	3HD2	LEU A	49	151.214	4.496	-7.247	1.00	0.00
ATOM 698	N	ALA A	50	148.177	5.145	-2.059	1.00	0.00
ATOM 699	CA	ALA A	50	147.920	4.838	-0.661	1.00	0.00
ATOM 700	C	ALA A	50	148.793	3.683	-0.183	1.00	0.00
ATOM 701	O	ALA A	50	148.658	2.554	-0.654	1.00	0.00
ATOM 702	CB	ALA A	50	146.448	4.511	-0.454	1.00	0.00
ATOM 703	H	ALA A	50	147.675	4.671	-2.755	1.00	0.00

ATOM 704	HA	ALA A	50	148.154	5.719	-0.082	1.00	0.00
ATOM 705	1HB	ALA A	50	146.320	3.440	-0.414	1.00	0.00
ATOM 706	2HB	ALA A	50	145.871	4.912	-1.273	1.00	0.00
ATOM 707	3HB	ALA A	50	146.109	4.949	0.473	1.00	0.00
ATOM 708	N	GLY A	51	149.690	3.974	0.753	1.00	0.00
ATOM 709	CA	GLY A	51	150.574	2.950	1.277	1.00	0.00
ATOM 710	C	GLY A	51	149.829	1.892	2.067	1.00	0.00
ATOM 711	O	GLY A	51	149.265	2.178	3.121	1.00	0.00
ATOM 712	H	GLY A	51	149.754	4.892	1.090	1.00	0.00
ATOM 713	1HA	GLY A	51	151.085	2.474	0.453	1.00	0.00
ATOM 714	2HA	GLY A	51	151.306	3.416	1.921	1.00	0.00
ATOM 715	N	LEU A	52	149.829	0.665	1.555	1.00	0.00
ATOM 716	CA	LEU A	52	149.149	-0.440	2.220	1.00	0.00
ATOM 717	C	LEU A	52	150.150	-1.351	2.923	1.00	0.00
ATOM 718	O	LEU A	52	151.154	-1.756	2.337	1.00	0.00
ATOM 719	CB	LEU A	52	148.330	-1.244	1.209	1.00	0.00
ATOM 720	CG	LEU A	52	147.084	-0.536	0.673	1.00	0.00
ATOM 721	CD1	LEU A	52	146.371	-1.410	-0.345	1.00	0.00
ATOM 722	CD2	LEU A	52	146.148	-0.170	1.815	1.00	0.00
ATOM 723	H	LEU A	52	150.298	0.499	0.710	1.00	0.00
ATOM 724	HA	LEU A	52	148.482	-0.021	2.958	1.00	0.00
ATOM 725	1HB	LEU A	52	148.969	-1.488	0.373	1.00	0.00
ATOM 726	2HB	LEU A	52	148.018	-2.163	1.681	1.00	0.00
ATOM 727	HG	LEU A	52	147.383	0.376	0.178	1.00	0.00
ATOM 728	1HD1	LEU A	52	145.328	-1.134	-0.389	1.00	0.00
ATOM 729	2HD1	LEU A	52	146.456	-2.447	-0.053	1.00	0.00
ATOM 730	3HD1	LEU A	52	146.820	-1.272	-1.317	1.00	0.00
ATOM 731	1HD2	LEU A	52	146.625	0.562	2.451	1.00	0.00
ATOM 732	2HD2	LEU A	52	145.920	-1.054	2.391	1.00	0.00

ATOM 733	3HD2	LEU A	52	145.235	0.244	1.412	1.00	0.00
ATOM 734	N	GLU A	53	149.869	-1.669	4.182	1.00	0.00
ATOM 735	CA	GLU A	53	150.744	-2.533	4.965	1.00	0.00
ATOM 736	C	GLU A	53	150.203	-3.959	5.007	1.00	0.00
ATOM 737	O	GLU A	53	149.225	-4.242	5.699	1.00	0.00
ATOM 738	CB	GLU A	53	150.892	-1.989	6.388	1.00	0.00
ATOM 739	CG	GLU A	53	151.852	-2.792	7.250	1.00	0.00
ATOM 740	CD	GLU A	53	151.466	-2.780	8.716	1.00	0.00
ATOM 741	OE1	GLU A	53	152.269	-2.289	9.538	1.00	0.00
ATOM 742	OE2	GLU A	53	150.360	-3.260	9.044	1.00	0.00
ATOM 743	H	GLU A	53	149.053	-1.315	4.593	1.00	0.00
ATOM 744	HA	GLU A	53	151.713	-2.542	4.490	1.00	0.00
ATOM 745	1HB	GLU A	53	151.255	-0.972	6.335	1.00	0.00
ATOM 746	2HB	GLU A	53	149.924	-1.992	6.865	1.00	0.00
ATOM 747	1HG	GLU A	53	151.857	-3.815	6.904	1.00	0.00
ATOM 748	2HG	GLU A	53	152.843	-2.373	7.150	1.00	0.00
ATOM 749	N	LEU A	54	150.846	-4.852	4.262	1.00	0.00
ATOM 750	CA	LEU A	54	150.430	-6.249	4.214	1.00	0.00
ATOM 751	C	LEU A	54	150.631	-6.923	5.567	1.00	0.00
ATOM 752	O	LEU A	54	151.705	-6.836	6.162	1.00	0.00
ATOM 753	CB	LEU A	54	151.213	-6.998	3.135	1.00	0.00
ATOM 754	CG	LEU A	54	151.220	-6.331	1.759	1.00	0.00
ATOM 755	CD1	LEU A	54	152.393	-6.831	0.929	1.00	0.00
ATOM 756	CD2	LEU A	54	149.906	-6.587	1.037	1.00	0.00
ATOM 757	H	LEU A	54	151.619	-4.564	3.733	1.00	0.00
ATOM 758	HA	LEU A	54	149.379	-6.272	3.966	1.00	0.00
ATOM 759	1HB	LEU A	54	152.236	-7.101	3.468	1.00	0.00
ATOM 760	2HB	LEU A	54	150.786	-7.985	3.030	1.00	0.00
ATOM 761	HG	LEU A	54	151.331	-5.264	1.885	1.00	0.00

ATOM 762	1HD1	LEU	A	54	153.306	-6.728	1.497	1.00	0.00
ATOM 763	2HD1	LEU	A	54	152.465	-6.250	0.022	1.00	0.00
ATOM 764	3HD1	LEU	A	54	152.240	-7.871	0.680	1.00	0.00
ATOM 765	1HD2	LEU	A	54	149.462	-7.499	1.409	1.00	0.00
ATOM 766	2HD2	LEU	A	54	150.090	-6.683	-0.023	1.00	0.00
ATOM 767	3HD2	LEU	A	54	149.232	-5.761	1.211	1.00	0.00
ATOM 768	N	GLU	A	55	149.590	-7.595	6.048	1.00	0.00
ATOM 769	CA	GLU	A	55	149.653	-8.284	7.331	1.00	0.00
ATOM 770	C	GLU	A	55	150.613	-9.468	7.267	1.00	0.00
ATOM 771	O	GLU	A	55	151.246	-9.820	8.263	1.00	0.00
ATOM 772	CB	GLU	A	55	148.261	-8.765	7.744	1.00	0.00
ATOM 773	CG	GLU	A	55	147.281	-7.634	8.009	1.00	0.00
ATOM 774	CD	GLU	A	55	146.305	-7.957	9.124	1.00	0.00
ATOM 775	OE1	GLU	A	55	145.186	-7.403	9.112	1.00	0.00
ATOM 776	OE2	GLU	A	55	146.660	-8.765	10.008	1.00	0.00
ATOM 777	H	GLU	A	55	148.760	-7.628	5.528	1.00	0.00
ATOM 778	HA	GLU	A	55	150.014	-7.582	8.067	1.00	0.00
ATOM 779	1HB	GLU	A	55	147.858	-9.384	6.957	1.00	0.00
ATOM 780	2HB	GLU	A	55	148.349	-9.354	8.644	1.00	0.00
ATOM 781	1HG	GLU	A	55	147.836	-6.749	8.282	1.00	0.00
ATOM 782	2HG	GLU	A	55	146.721	-7.441	7.104	1.00	0.00
ATOM 783	N	ASP	A	56	150.717	-10.077	6.091	1.00	0.00
ATOM 784	CA	ASP	A	56	151.601	-11.220	5.898	1.00	0.00
ATOM 785	C	ASP	A	56	152.965	-10.773	5.385	1.00	0.00
ATOM 786	O	ASP	A	56	153.065	-10.126	4.342	1.00	0.00
ATOM 787	CB	ASP	A	56	150.975	-12.215	4.918	1.00	0.00
ATOM 788	CG	ASP	A	56	150.131	-13.263	5.618	1.00	0.00
ATOM 789	OD1	ASP	A	56	150.329	-14.464	5.342	1.00	0.00
ATOM 790	OD2	ASP	A	56	149.275	-12.881	6.443	1.00	0.00

ATOM 791	H	ASP A	56	150.187	-9.749	5.335	1.00	0.00
ATOM 792	HA	ASP A	56	151.730	-11.705	6.854	1.00	0.00
ATOM 793	1HB	ASP A	56	150.346	-11.679	4.223	1.00	0.00
ATOM 794	2HB	ASP A	56	151.761	-12.717	4.373	1.00	0.00
ATOM 795	N	GLU A	57	154.013	-11.122	6.123	1.00	0.00
ATOM 796	CA	GLU A	57	155.372	-10.756	5.742	1.00	0.00
ATOM 797	C	GLU A	57	155.819	-11.534	4.509	1.00	0.00
ATOM 798	O	GLU A	57	156.361	-12.633	4.617	1.00	0.00
ATOM 799	CB	GLU A	57	156.337	-11.018	6.901	1.00	0.00
ATOM 800	CG	GLU A	57	156.180	-10.041	8.055	1.00	0.00
ATOM 801	CD	GLU A	57	157.188	-10.282	9.162	1.00	0.00
ATOM 802	OE1	GLU A	57	158.344	-9.829	9.022	1.00	0.00
ATOM 803	OE2	GLU A	57	156.820	-10.922	10.170	1.00	0.00
ATOM 804	H	GLU A	57	153.869	-11.638	6.944	1.00	0.00
ATOM 805	HA	GLU A	57	155.379	-9.702	5.511	1.00	0.00
ATOM 806	1HB	GLU A	57	156.167	-12.016	7.277	1.00	0.00
ATOM 807	2HB	GLU A	57	157.350	-10.949	6.533	1.00	0.00
ATOM 808	1HG	GLU A	57	156.314	-9.037	7.680	1.00	0.00
ATOM 809	2HG	GLU A	57	155.186	-10.142	8.464	1.00	0.00
ATOM 810	N	CYS A	58	155.588	-10.954	3.334	1.00	0.00
ATOM 811	CA	CYS A	58	155.966	-11.592	2.079	1.00	0.00
ATOM 812	C	CYS A	58	157.251	-10.984	1.524	1.00	0.00
ATOM 813	O	CYS A	58	157.464	-9.774	1.610	1.00	0.00
ATOM 814	CB	CYS A	58	154.840	-11.456	1.054	1.00	0.00
ATOM 815	SG	CYS A	58	153.495	-12.644	1.273	1.00	0.00
ATOM 816	H	CYS A	58	155.153	-10.076	3.312	1.00	0.00
ATOM 817	HA	CYS A	58	156.136	-12.640	2.278	1.00	0.00
ATOM 818	1HB	CYS A	58	154.417	-10.465	1.125	1.00	0.00
ATOM 819	2HB	CYS A	58	155.247	-11.598	0.063	1.00	0.00

ATOM 820	HG	CYS A	58	153.569	-13.017	2.154	1.00	0.00
ATOM 821	N	ALA A	59	158.103	-11.830	0.956	1.00	0.00
ATOM 822	CA	ALA A	59	159.367	-11.377	0.388	1.00	0.00
ATOM 823	C	ALA A	59	159.133	-10.493	-0.833	1.00	0.00
ATOM 824	O	ALA A	59	158.338	-10.828	-1.711	1.00	0.00
ATOM 825	CB	ALA A	59	160.237	-12.568	0.019	1.00	0.00
ATOM 826	H	ALA A	59	157.877	-12.784	0.918	1.00	0.00
ATOM 827	HA	ALA A	59	159.884	-10.802	1.142	1.00	0.00
ATOM 828	1HB	ALA A	59	160.836	-12.324	-0.846	1.00	0.00
ATOM 829	2HB	ALA A	59	159.609	-13.417	-0.206	1.00	0.00
ATOM 830	3HB	ALA A	59	160.886	-12.811	0.848	1.00	0.00
ATOM 831	N	GLY A	60	159.830	-9.362	-0.881	1.00	0.00
ATOM 832	CA	GLY A	60	159.684	-8.448	-1.998	1.00	0.00
ATOM 833	C	GLY A	60	158.880	-7.214	-1.637	1.00	0.00
ATOM 834	O	GLY A	60	158.226	-6.619	-2.492	1.00	0.00
ATOM 835	H	GLY A	60	160.449	-9.148	-0.152	1.00	0.00
ATOM 836	1HA	GLY A	60	160.665	-8.141	-2.328	1.00	0.00
ATOM 837	2HA	GLY A	60	159.188	-8.963	-2.807	1.00	0.00
ATOM 838	N	CYS A	61	158.929	-6.830	-0.365	1.00	0.00
ATOM 839	CA	CYS A	61	158.200	-5.659	0.108	1.00	0.00
ATOM 840	C	CYS A	61	159.087	-4.786	0.991	1.00	0.00
ATOM 841	O	CYS A	61	159.907	-5.293	1.757	1.00	0.00
ATOM 842	CB	CYS A	61	156.954	-6.089	0.884	1.00	0.00
ATOM 843	SG	CYS A	61	155.907	-7.271	0.002	1.00	0.00
ATOM 844	H	CYS A	61	159.469	-7.346	0.270	1.00	0.00
ATOM 845	HA	CYS A	61	157.897	-5.087	-0.754	1.00	0.00
ATOM 846	1HB	CYS A	61	157.257	-6.550	1.812	1.00	0.00
ATOM 847	2HB	CYS A	61	156.356	-5.216	1.100	1.00	0.00
ATOM 848	HG	CYS A	61	156.179	-7.278	-0.918	1.00	0.00

ATOM 849	N	THR A	62	158.917	-3.474	0.877	1.00	0.00
ATOM 850	CA	THR A	62	159.702	-2.530	1.664	1.00	0.00
ATOM 851	C	THR A	62	159.143	-2.404	3.078	1.00	0.00
ATOM 852	O	THR A	62	158.196	-3.099	3.446	1.00	0.00
ATOM 853	CB	THR A	62	159.721	-1.159	0.986	1.00	0.00
ATOM 854	OG1	THR A	62	158.458	-0.526	1.100	1.00	0.00
ATOM 855	CG2	THR A	62	160.070	-1.223	-0.485	1.00	0.00
ATOM 856	H	THR A	62	158.248	-3.130	0.248	1.00	0.00
ATOM 857	HA	THR A	62	160.712	-2.907	1.722	1.00	0.00
ATOM 858	HB	THR A	62	160.458	-0.537	1.475	1.00	0.00
ATOM 859	HG1	THR A	62	157.777	-1.107	0.755	1.00	0.00
ATOM 860	1HG2	THR A	62	159.178	-1.417	-1.059	1.00	0.00
ATOM 861	2HG2	THR A	62	160.784	-2.017	-0.651	1.00	0.00
ATOM 862	3HG2	THR A	62	160.502	-0.283	-0.795	1.00	0.00
ATOM 863	N	ASP A	63	159.735	-1.511	3.865	1.00	0.00
ATOM 864	CA	ASP A	63	159.296	-1.294	5.239	1.00	0.00
ATOM 865	C	ASP A	63	158.638	0.075	5.389	1.00	0.00
ATOM 866	O	ASP A	63	158.710	0.696	6.449	1.00	0.00
ATOM 867	CB	ASP A	63	160.481	-1.410	6.200	1.00	0.00
ATOM 868	CG	ASP A	63	161.653	-0.546	5.781	1.00	0.00
ATOM 869	OD1	ASP A	63	161.891	0.491	6.435	1.00	0.00
ATOM 870	OD2	ASP A	63	162.335	-0.906	4.798	1.00	0.00
ATOM 871	H	ASP A	63	160.485	-0.987	3.514	1.00	0.00
ATOM 872	HA	ASP A	63	158.572	-2.056	5.480	1.00	0.00
ATOM 873	1HB	ASP A	63	160.167	-1.103	7.187	1.00	0.00
ATOM 874	2HB	ASP A	63	160.808	-2.438	6.234	1.00	0.00
ATOM 875	N	GLY A	64	157.997	0.538	4.320	1.00	0.00
ATOM 876	CA	GLY A	64	157.336	1.829	4.354	1.00	0.00
ATOM 877	C	GLY A	64	158.131	2.907	3.644	1.00	0.00

ATOM 878	O	GLY A	64	158.365	3.981	4.198	1.00	0.00
ATOM 879	H	GLY A	64	157.973	-0.002	3.503	1.00	0.00
ATOM 880	1HA	GLY A	64	156.369	1.738	3.880	1.00	0.00
ATOM 881	2HA	GLY A	64	157.193	2.121	5.384	1.00	0.00
ATOM 882	N	THR A	65	158.548	2.619	2.416	1.00	0.00
ATOM 883	CA	THR A	65	159.322	3.572	1.629	1.00	0.00
ATOM 884	C	THR A	65	158.949	3.489	0.152	1.00	0.00
ATOM 885	O	THR A	65	158.860	2.401	-0.416	1.00	0.00
ATOM 886	CB	THR A	65	160.819	3.313	1.803	1.00	0.00
ATOM 887	OG1	THR A	65	161.067	1.935	2.023	1.00	0.00
ATOM 888	CG2	THR A	65	161.430	4.078	2.957	1.00	0.00
ATOM 889	H	THR A	65	158.330	1.745	2.028	1.00	0.00
ATOM 890	HA	THR A	65	159.094	4.564	1.990	1.00	0.00
ATOM 891	HB	THR A	65	161.333	3.610	0.900	1.00	0.00
ATOM 892	HG1	THR A	65	160.761	1.430	1.267	1.00	0.00
ATOM 893	1HG2	THR A	65	161.652	5.087	2.641	1.00	0.00
ATOM 894	2HG2	THR A	65	162.341	3.590	3.271	1.00	0.00
ATOM 895	3HG2	THR A	65	160.732	4.104	3.781	1.00	0.00
ATOM 896	N	PHE A	66	158.732	4.647	-0.465	1.00	0.00
ATOM 897	CA	PHE A	66	158.369	4.705	-1.876	1.00	0.00
ATOM 898	C	PHE A	66	159.321	5.616	-2.644	1.00	0.00
ATOM 899	O	PHE A	66	159.363	6.824	-2.414	1.00	0.00
ATOM 900	CB	PHE A	66	156.931	5.204	-2.033	1.00	0.00
ATOM 901	CG	PHE A	66	156.344	4.927	-3.388	1.00	0.00
ATOM 902	CD1	PHE A	66	156.277	5.925	-4.346	1.00	0.00
ATOM 903	CD2	PHE A	66	155.859	3.667	-3.702	1.00	0.00
ATOM 904	CE1	PHE A	66	155.739	5.673	-5.594	1.00	0.00
ATOM 905	CE2	PHE A	66	155.318	3.410	-4.948	1.00	0.00
ATOM 906	CZ	PHE A	66	155.258	4.413	-5.895	1.00	0.00

ATOM 907	H	PHE A	66	158.819	5.482	0.042	1.00	0.00
ATOM 908	HA	PHE A	66	158.440	3.706	-2.279	1.00	0.00
ATOM 909	1HB	PHE A	66	156.307	4.722	-1.296	1.00	0.00
ATOM 910	2HB	PHE A	66	156.909	6.273	-1.872	1.00	0.00
ATOM 911	HD1	PHE A	66	156.653	6.910	-4.112	1.00	0.00
ATOM 912	HD2	PHE A	66	155.905	2.882	-2.963	1.00	0.00
ATOM 913	HE1	PHE A	66	155.692	6.460	-6.332	1.00	0.00
ATOM 914	HE2	PHE A	66	154.943	2.424	-5.181	1.00	0.00
ATOM 915	HZ	PHE A	66	154.836	4.213	-6.868	1.00	0.00
ATOM 916	N	ARG A	67	160.086	5.027	-3.557	1.00	0.00
ATOM 917	CA	ARG A	67	161.038	5.785	-4.360	1.00	0.00
ATOM 918	C	ARG A	67	162.073	6.468	-3.472	1.00	0.00
ATOM 919	O	ARG A	67	162.508	7.586	-3.755	1.00	0.00
ATOM 920	CB	ARG A	67	160.307	6.828	-5.207	1.00	0.00
ATOM 921	CG	ARG A	67	159.321	6.229	-6.194	1.00	0.00
ATOM 922	CD	ARG A	67	159.188	7.088	-7.441	1.00	0.00
ATOM 923	NE	ARG A	67	159.003	8.500	-7.115	1.00	0.00
ATOM 924	CZ	ARG A	67	159.198	9.493	-7.980	1.00	0.00
ATOM 925	NH1	ARG A	67	159.585	9.233	-9.223	1.00	0.00
ATOM 926	NH2	ARG A	67	159.008	10.749	-7.600	1.00	0.00
ATOM 927	H	ARG A	67	160.007	4.060	-3.696	1.00	0.00
ATOM 928	HA	ARG A	67	161.545	5.093	-5.016	1.00	0.00
ATOM 929	1HB	ARG A	67	159.767	7.494	-4.550	1.00	0.00
ATOM 930	2HB	ARG A	67	161.037	7.400	-5.762	1.00	0.00
ATOM 931	1HG	ARG A	67	159.664	5.246	-6.481	1.00	0.00
ATOM 932	2HG	ARG A	67	158.354	6.149	-5.719	1.00	0.00
ATOM 933	1HD	ARG A	67	160.085	6.981	-8.034	1.00	0.00
ATOM 934	2HD	ARG A	67	158.338	6.744	-8.011	1.00	0.00
ATOM 935	HE	ARG A	67	158.717	8.720	-6.203	1.00	0.00

ATOM 936	1HH1	ARG	A	67	159.730	8.288	-9.515	1.00	0.00
ATOM 937	2HH1	ARG	A	67	159.730	9.984	-9.868	1.00	0.00
ATOM 938	1HH2	ARG	A	67	158.716	10.950	-6.665	1.00	0.00
ATOM 939	2HH2	ARG	A	67	159.155	11.495	-8.250	1.00	0.00
ATOM 940	N	GLY	A	68	162.462	5.792	-2.397	1.00	0.00
ATOM 941	CA	GLY	A	68	163.442	6.350	-1.484	1.00	0.00
ATOM 942	C	GLY	A	68	162.894	7.521	-0.691	1.00	0.00
ATOM 943	O	GLY	A	68	163.642	8.412	-0.291	1.00	0.00
ATOM 944	H	GLY	A	68	162.080	4.907	-2.222	1.00	0.00
ATOM 945	1HA	GLY	A	68	163.757	5.579	-0.796	1.00	0.00
ATOM 946	2HA	GLY	A	68	164.298	6.684	-2.052	1.00	0.00
ATOM 947	N	THR	A	69	161.585	7.516	-0.463	1.00	0.00
ATOM 948	CA	THR	A	69	160.934	8.585	0.287	1.00	0.00
ATOM 949	C	THR	A	69	160.118	8.020	1.443	1.00	0.00
ATOM 950	O	THR	A	69	158.973	7.605	1.263	1.00	0.00
ATOM 951	CB	THR	A	69	160.034	9.408	-0.636	1.00	0.00
ATOM 952	OG1	THR	A	69	160.665	9.633	-1.884	1.00	0.00
ATOM 953	CG2	THR	A	69	159.659	10.756	-0.060	1.00	0.00
ATOM 954	H	THR	A	69	161.041	6.777	-0.808	1.00	0.00
ATOM 955	HA	THR	A	69	161.706	9.227	0.686	1.00	0.00
ATOM 956	HB	THR	A	69	159.119	8.859	-0.812	1.00	0.00
ATOM 957	HG1	THR	A	69	161.414	10.222	-1.762	1.00	0.00
ATOM 958	1HG2	THR	A	69	159.279	10.627	0.943	1.00	0.00
ATOM 959	2HG2	THR	A	69	158.900	11.214	-0.677	1.00	0.00
ATOM 960	3HG2	THR	A	69	160.532	11.391	-0.034	1.00	0.00
ATOM 961	N	ARG	A	70	160.714	8.007	2.631	1.00	0.00
ATOM 962	CA	ARG	A	70	160.040	7.492	3.818	1.00	0.00
ATOM 963	C	ARG	A	70	158.775	8.291	4.114	1.00	0.00
ATOM 964	O	ARG	A	70	158.830	9.502	4.327	1.00	0.00

ATOM 965	CB	ARG A	70	160.980	7.538	5.024	1.00	0.00
ATOM 966	CG	ARG A	70	160.363	6.981	6.296	1.00	0.00
ATOM 967	CD	ARG A	70	160.901	7.687	7.531	1.00	0.00
ATOM 968	NE	ARG A	70	162.324	7.425	7.735	1.00	0.00
ATOM 969	CZ	ARG A	70	163.020	7.882	8.774	1.00	0.00
ATOM 970	NH1	ARG A	70	162.430	8.624	9.703	1.00	0.00
ATOM 971	NH2	ARG A	70	164.310	7.596	8.884	1.00	0.00
ATOM 972	H	ARG A	70	161.627	8.350	2.711	1.00	0.00
ATOM 973	HA	ARG A	70	159.766	6.466	3.625	1.00	0.00
ATOM 974	1HB	ARG A	70	161.866	6.964	4.797	1.00	0.00
ATOM 975	2HB	ARG A	70	161.263	8.564	5.205	1.00	0.00
ATOM 976	1HG	ARG A	70	159.293	7.115	6.255	1.00	0.00
ATOM 977	2HG	ARG A	70	160.594	5.928	6.365	1.00	0.00
ATOM 978	1HD	ARG A	70	160.754	8.750	7.414	1.00	0.00
ATOM 979	2HD	ARG A	70	160.353	7.341	8.395	1.00	0.00
ATOM 980	HE	ARG A	70	162.785	6.879	7.064	1.00	0.00
ATOM 981	1HH1	ARG A	70	161.457	8.842	9.626	1.00	0.00
ATOM 982	2HH1	ARG A	70	162.958	8.964	10.481	1.00	0.00
ATOM 983	1HH2	ARG A	70	164.760	7.038	8.187	1.00	0.00
ATOM 984	2HH2	ARG A	70	164.833	7.940	9.665	1.00	0.00
ATOM 985	N	TYR A	71	157.637	7.605	4.126	1.00	0.00
ATOM 986	CA	TYR A	71	156.359	8.251	4.398	1.00	0.00
ATOM 987	C	TYR A	71	155.842	7.876	5.783	1.00	0.00
ATOM 988	O	TYR A	71	155.337	8.725	6.519	1.00	0.00
ATOM 989	CB	TYR A	71	155.330	7.859	3.335	1.00	0.00
ATOM 990	CG	TYR A	71	155.555	8.528	1.998	1.00	0.00
ATOM 991	CD1	TYR A	71	155.502	7.798	0.817	1.00	0.00
ATOM 992	CD2	TYR A	71	155.820	9.889	1.917	1.00	0.00
ATOM 993	CE1	TYR A	71	155.707	8.406	-0.407	1.00	0.00

ATOM 994	CE2	TYR A	71	156.025	10.504	0.696	1.00	0.00
ATOM 995	CZ	TYR A	71	155.968	9.759	-0.463	1.00	0.00
ATOM 996	OH	TYR A	71	156.173	10.368	-1.679	1.00	0.00
ATOM 997	H	TYR A	71	157.658	6.642	3.950	1.00	0.00
ATOM 998	HA	TYR A	71	156.512	9.319	4.360	1.00	0.00
ATOM 999	1HB	TYR A	71	155.370	6.791	3.182	1.00	0.00
ATOM 1000	2HB	TYR A	71	154.344	8.131	3.682	1.00	0.00
ATOM 1001	HD1	TYR A	71	155.297	6.739	0.863	1.00	0.00
ATOM 1002	HD2	TYR A	71	155.865	10.470	2.826	1.00	0.00
ATOM 1003	HE1	TYR A	71	155.662	7.821	-1.314	1.00	0.00
ATOM 1004	HE2	TYR A	71	156.231	11.564	0.654	1.00	0.00
ATOM 1005	HH	TYR A	71	155.355	10.771	-1.977	1.00	0.00
ATOM 1006	N	PHE A	72	155.971	6.601	6.133	1.00	0.00
ATOM 1007	CA	PHE A	72	155.517	6.114	7.430	1.00	0.00
ATOM 1008	C	PHE A	72	156.412	4.983	7.931	1.00	0.00
ATOM 1009	O	PHE A	72	157.202	4.421	7.171	1.00	0.00
ATOM 1010	CB	PHE A	72	154.069	5.631	7.339	1.00	0.00
ATOM 1011	CG	PHE A	72	153.849	4.590	6.279	1.00	0.00
ATOM 1012	CD1	PHE A	72	153.914	3.241	6.590	1.00	0.00
ATOM 1013	CD2	PHE A	72	153.576	4.960	4.972	1.00	0.00
ATOM 1014	CE1	PHE A	72	153.712	2.281	5.617	1.00	0.00
ATOM 1015	CE2	PHE A	72	153.373	4.004	3.995	1.00	0.00
ATOM 1016	CZ	PHE A	72	153.440	2.663	4.318	1.00	0.00
ATOM 1017	H	PHE A	72	156.382	5.972	5.503	1.00	0.00
ATOM 1018	HA	PHE A	72	155.572	6.935	8.129	1.00	0.00
ATOM 1019	1HB	PHE A	72	153.779	5.206	8.288	1.00	0.00
ATOM 1020	2HB	PHE A	72	153.430	6.473	7.117	1.00	0.00
ATOM 1021	HD1	PHE A	72	154.126	2.941	7.607	1.00	0.00
ATOM 1022	HD2	PHE A	72	153.523	6.008	4.718	1.00	0.00

ATOM 1023	HE1	PHE A	72	153.765	1.233	5.872	1.00	0.00
ATOM 1024	HE2	PHE A	72	153.161	4.306	2.980	1.00	0.00
ATOM 1025	HZ	PHE A	72	153.281	1.914	3.555	1.00	0.00
ATOM 1026	N	THR A	73	156.281	4.657	9.212	1.00	0.00
ATOM 1027	CA	THR A	73	157.077	3.592	9.813	1.00	0.00
ATOM 1028	C	THR A	73	156.235	2.340	10.030	1.00	0.00
ATOM 1029	O	THR A	73	155.254	2.360	10.773	1.00	0.00
ATOM 1030	CB	THR A	73	157.667	4.061	11.145	1.00	0.00
ATOM 1031	OG1	THR A	73	158.251	2.975	11.843	1.00	0.00
ATOM 1032	CG2	THR A	73	156.646	4.699	12.060	1.00	0.00
ATOM 1033	H	THR A	73	155.634	5.141	9.765	1.00	0.00
ATOM 1034	HA	THR A	73	157.884	3.358	9.135	1.00	0.00
ATOM 1035	HB	THR A	73	158.438	4.792	10.948	1.00	0.00
ATOM 1036	HG1	THR A	73	158.876	2.524	11.270	1.00	0.00
ATOM 1037	1HG2	THR A	73	156.334	5.647	11.646	1.00	0.00
ATOM 1038	2HG2	THR A	73	157.086	4.860	13.034	1.00	0.00
ATOM 1039	3HG2	THR A	73	155.790	4.048	12.155	1.00	0.00
ATOM 1040	N	CYS A	74	156.626	1.250	9.377	1.00	0.00
ATOM 1041	CA	CYS A	74	155.907	-0.012	9.498	1.00	0.00
ATOM 1042	C	CYS A	74	156.878	-1.179	9.653	1.00	0.00
ATOM 1043	O	CYS A	74	158.092	-0.983	9.722	1.00	0.00
ATOM 1044	CB	CYS A	74	155.015	-0.236	8.275	1.00	0.00
ATOM 1045	SG	CYS A	74	153.346	0.437	8.448	1.00	0.00
ATOM 1046	H	CYS A	74	157.416	1.297	8.799	1.00	0.00
ATOM 1047	HA	CYS A	74	155.286	0.043	10.380	1.00	0.00
ATOM 1048	1HB	CYS A	74	155.470	0.235	7.416	1.00	0.00
ATOM 1049	2HB	CYS A	74	154.926	-1.296	8.093	1.00	0.00
ATOM 1050	HG	CYS A	74	152.728	-0.208	8.096	1.00	0.00
ATOM 1051	N	ALA A	75	156.336	-2.390	9.706	1.00	0.00

ATOM 1052	CA	ALA A	75	157.155	-3.588	9.852	1.00	0.00
ATOM 1053	C	ALA A	75	157.953	-3.865	8.582	1.00	0.00
ATOM 1054	O	ALA A	75	157.700	-3.270	7.536	1.00	0.00
ATOM 1055	CB	ALA A	75	156.282	-4.784	10.200	1.00	0.00
ATOM 1056	H	ALA A	75	155.362	-2.482	9.645	1.00	0.00
ATOM 1057	HA	ALA A	75	157.842	-3.423	10.669	1.00	0.00
ATOM 1058	1HB	ALA A	75	156.077	-5.353	9.306	1.00	0.00
ATOM 1059	2HB	ALA A	75	155.353	-4.438	10.629	1.00	0.00
ATOM 1060	3HB	ALA A	75	156.797	-5.409	10.915	1.00	0.00
ATOM 1061	N	LEU A	76	158.917	-4.774	8.683	1.00	0.00
ATOM 1062	CA	LEU A	76	159.752	-5.131	7.542	1.00	0.00
ATOM 1063	C	LEU A	76	159.032	-6.118	6.628	1.00	0.00
ATOM 1064	O	LEU A	76	158.388	-7.056	7.097	1.00	0.00
ATOM 1065	CB	LEU A	76	161.074	-5.735	8.021	1.00	0.00
ATOM 1066	CG	LEU A	76	161.972	-4.781	8.812	1.00	0.00
ATOM 1067	CD1	LEU A	76	162.755	-5.542	9.871	1.00	0.00
ATOM 1068	CD2	LEU A	76	162.916	-4.041	7.877	1.00	0.00
ATOM 1069	H	LEU A	76	159.070	-5.215	9.545	1.00	0.00
ATOM 1070	HA	LEU A	76	159.958	-4.229	6.987	1.00	0.00
ATOM 1071	1HB	LEU A	76	160.851	-6.588	8.645	1.00	0.00
ATOM 1072	2HB	LEU A	76	161.624	-6.077	7.156	1.00	0.00
ATOM 1073	HG	LEU A	76	161.355	-4.050	9.315	1.00	0.00
ATOM 1074	1HD1	LEU A	76	163.565	-6.082	9.401	1.00	0.00
ATOM 1075	2HD1	LEU A	76	162.100	-6.238	10.373	1.00	0.00
ATOM 1076	3HD1	LEU A	76	163.159	-4.844	10.590	1.00	0.00
ATOM 1077	1HD2	LEU A	76	163.625	-4.738	7.455	1.00	0.00
ATOM 1078	2HD2	LEU A	76	163.445	-3.278	8.428	1.00	0.00
ATOM 1079	3HD2	LEU A	76	162.348	-3.581	7.081	1.00	0.00
ATOM 1080	N	LYS A	77	159.145	-5.898	5.323	1.00	0.00

ATOM 1081	CA	LYS A	77	158.504	-6.766	4.342	1.00	0.00
ATOM 1082	C	LYS A	77	156.987	-6.744	4.503	1.00	0.00
ATOM 1083	O	LYS A	77	156.324	-7.772	4.375	1.00	0.00
ATOM 1084	CB	LYS A	77	159.023	-8.199	4.483	1.00	0.00
ATOM 1085	CG	LYS A	77	160.538	-8.303	4.461	1.00	0.00
ATOM 1086	CD	LYS A	77	161.091	-8.095	3.059	1.00	0.00
ATOM 1087	CE	LYS A	77	162.387	-7.301	3.083	1.00	0.00
ATOM 1088	NZ	LYS A	77	162.485	-6.363	1.932	1.00	0.00
ATOM 1089	H	LYS A	77	159.672	-5.132	5.010	1.00	0.00
ATOM 1090	HA	LYS A	77	158.755	-6.398	3.358	1.00	0.00
ATOM 1091	1HB	LYS A	77	158.670	-8.607	5.419	1.00	0.00
ATOM 1092	2HB	LYS A	77	158.631	-8.794	3.670	1.00	0.00
ATOM 1093	1HG	LYS A	77	160.951	-7.548	5.114	1.00	0.00
ATOM 1094	2HG	LYS A	77	160.829	-9.282	4.810	1.00	0.00
ATOM 1095	1HD	LYS A	77	161.279	-9.058	2.610	1.00	0.00
ATOM 1096	2HD	LYS A	77	160.360	-7.557	2.471	1.00	0.00
ATOM 1097	1HE	LYS A	77	162.431	-6.735	4.001	1.00	0.00
ATOM 1098	2HE	LYS A	77	163.217	-7.991	3.047	1.00	0.00
ATOM 1099	1HZ	LYS A	77	161.550	-5.963	1.714	1.00	0.00
ATOM 1100	2HZ	LYS A	77	162.839	-6.863	1.092	1.00	0.00
ATOM 1101	3HZ	LYS A	77	163.139	-5.586	2.158	1.00	0.00
ATOM 1102	N	LYS A	78	156.445	-5.564	4.785	1.00	0.00
ATOM 1103	CA	LYS A	78	155.007	-5.407	4.964	1.00	0.00
ATOM 1104	C	LYS A	78	154.546	-4.032	4.488	1.00	0.00
ATOM 1105	O	LYS A	78	153.689	-3.405	5.110	1.00	0.00
ATOM 1106	CB	LYS A	78	154.630	-5.604	6.433	1.00	0.00
ATOM 1107	CG	LYS A	78	155.068	-6.946	6.999	1.00	0.00
ATOM 1108	CD	LYS A	78	154.557	-7.146	8.417	1.00	0.00
ATOM 1109	CE	LYS A	78	153.324	-8.035	8.449	1.00	0.00

ATOM 1110	NZ	LYS A	78	152.234	-7.445	9.274	1.00	0.00
ATOM 1111	H	LYS A	78	157.026	-4.779	4.874	1.00	0.00
ATOM 1112	HA	LYS A	78	154.515	-6.163	4.370	1.00	0.00
ATOM 1113	1HB	LYS A	78	155.093	-4.824	7.019	1.00	0.00
ATOM 1114	2HB	LYS A	78	153.558	-5.529	6.531	1.00	0.00
ATOM 1115	1HG	LYS A	78	154.677	-7.734	6.372	1.00	0.00
ATOM 1116	2HG	LYS A	78	156.147	-6.989	7.004	1.00	0.00
ATOM 1117	1HD	LYS A	78	155.335	-7.607	9.007	1.00	0.00
ATOM 1118	2HD	LYS A	78	154.306	-6.183	8.838	1.00	0.00
ATOM 1119	1HE	LYS A	78	152.965	-8.170	7.439	1.00	0.00
ATOM 1120	2HE	LYS A	78	153.598	-8.994	8.862	1.00	0.00
ATOM 1121	1HZ	LYS A	78	152.631	-7.002	10.127	1.00	0.00
ATOM 1122	2HZ	LYS A	78	151.563	-8.185	9.563	1.00	0.00
ATOM 1123	3HZ	LYS A	78	151.722	-6.723	8.727	1.00	0.00
ATOM 1124	N	ALA A	79	155.121	-3.572	3.382	1.00	0.00
ATOM 1125	CA	ALA A	79	154.769	-2.273	2.822	1.00	0.00
ATOM 1126	C	ALA A	79	154.594	-2.354	1.310	1.00	0.00
ATOM 1127	O	ALA A	79	155.564	-2.522	0.571	1.00	0.00
ATOM 1128	CB	ALA A	79	155.829	-1.241	3.178	1.00	0.00
ATOM 1129	H	ALA A	79	155.797	-4.119	2.931	1.00	0.00
ATOM 1130	HA	ALA A	79	153.835	-1.961	3.266	1.00	0.00
ATOM 1131	1HB	ALA A	79	155.353	-0.297	3.400	1.00	0.00
ATOM 1132	2HB	ALA A	79	156.504	-1.116	2.344	1.00	0.00
ATOM 1133	3HB	ALA A	79	156.383	-1.576	4.042	1.00	0.00
ATOM 1134	N	LEU A	80	153.350	-2.236	0.856	1.00	0.00
ATOM 1135	CA	LEU A	80	153.048	-2.297	-0.569	1.00	0.00
ATOM 1136	C	LEU A	80	152.227	-1.087	-1.004	1.00	0.00
ATOM 1137	O	LEU A	80	151.035	-0.995	-0.709	1.00	0.00
ATOM 1138	CB	LEU A	80	152.292	-3.586	-0.896	1.00	0.00

ATOM 1139	CG	LEU A	80	151.856	-3.730	-2.355	1.00	0.00
ATOM 1140	CD1	LEU A	80	153.048	-4.071	-3.236	1.00	0.00
ATOM 1141	CD2	LEU A	80	150.775	-4.791	-2.485	1.00	0.00
ATOM 1142	H	LEU A	80	152.619	-2.105	1.494	1.00	0.00
ATOM 1143	HA	LEU A	80	153.984	-2.293	-1.107	1.00	0.00
ATOM 1144	1HB	LEU A	80	152.927	-4.424	-0.645	1.00	0.00
ATOM 1145	2HB	LEU A	80	151.409	-3.627	-0.275	1.00	0.00
ATOM 1146	HG	LEU A	80	151.448	-2.790	-2.696	1.00	0.00
ATOM 1147	1HD1	LEU A	80	153.869	-3.409	-3.002	1.00	0.00
ATOM 1148	2HD1	LEU A	80	152.775	-3.951	-4.273	1.00	0.00
ATOM 1149	3HD1	LEU A	80	153.348	-5.093	-3.058	1.00	0.00
ATOM 1150	1HD2	LEU A	80	150.078	-4.699	-1.665	1.00	0.00
ATOM 1151	2HD2	LEU A	80	151.227	-5.772	-2.463	1.00	0.00
ATOM 1152	3HD2	LEU A	80	150.250	-4.658	-3.419	1.00	0.00
ATOM 1153	N	PHE A	81	152.873	-0.161	-1.704	1.00	0.00
ATOM 1154	CA	PHE A	81	152.202	1.044	-2.178	1.00	0.00
ATOM 1155	C	PHE A	81	151.397	0.757	-3.441	1.00	0.00
ATOM 1156	O	PHE A	81	151.830	-0.004	-4.307	1.00	0.00
ATOM 1157	CB	PHE A	81	153.225	2.147	-2.452	1.00	0.00
ATOM 1158	CG	PHE A	81	153.798	2.757	-1.203	1.00	0.00
ATOM 1159	CD1	PHE A	81	153.181	3.843	-0.603	1.00	0.00
ATOM 1160	CD2	PHE A	81	154.951	2.244	-0.632	1.00	0.00
ATOM 1161	CE1	PHE A	81	153.705	4.406	0.546	1.00	0.00
ATOM 1162	CE2	PHE A	81	155.480	2.804	0.515	1.00	0.00
ATOM 1163	CZ	PHE A	81	154.856	3.885	1.105	1.00	0.00
ATOM 1164	H	PHE A	81	153.823	-0.290	-1.907	1.00	0.00
ATOM 1165	HA	PHE A	81	151.528	1.375	-1.403	1.00	0.00
ATOM 1166	1HB	PHE A	81	154.043	1.736	-3.025	1.00	0.00
ATOM 1167	2HB	PHE A	81	152.752	2.935	-3.020	1.00	0.00

ATOM 1168	HD1	PHE A	81	152.282	4.250	-1.039	1.00	0.00
ATOM 1169	HD2	PHE A	81	155.440	1.398	-1.092	1.00	0.00
ATOM 1170	HE1	PHE A	81	153.215	5.252	1.005	1.00	0.00
ATOM 1171	HE2	PHE A	81	156.380	2.395	0.951	1.00	0.00
ATOM 1172	HZ	PHE A	81	155.267	4.324	2.002	1.00	0.00
ATOM 1173	N	VAL A	82	150.223	1.371	-3.541	1.00	0.00
ATOM 1174	CA	VAL A	82	149.357	1.182	-4.698	1.00	0.00
ATOM 1175	C	VAL A	82	148.503	2.419	-4.955	1.00	0.00
ATOM 1176	O	VAL A	82	148.414	3.310	-4.111	1.00	0.00
ATOM 1177	CB	VAL A	82	148.432	-0.036	-4.516	1.00	0.00
ATOM 1178	CG1	VAL A	82	149.244	-1.323	-4.481	1.00	0.00
ATOM 1179	CG2	VAL A	82	147.598	0.110	-3.253	1.00	0.00
ATOM 1180	H	VAL A	82	149.931	1.966	-2.818	1.00	0.00
ATOM 1181	HA	VAL A	82	149.986	1.005	-5.558	1.00	0.00
ATOM 1182	HB	VAL A	82	147.762	-0.084	-5.361	1.00	0.00
ATOM 1183	1HG1	VAL A	82	149.765	-1.444	-5.419	1.00	0.00
ATOM 1184	2HG1	VAL A	82	148.582	-2.162	-4.327	1.00	0.00
ATOM 1185	3HG1	VAL A	82	149.960	-1.275	-3.674	1.00	0.00
ATOM 1186	1HG2	VAL A	82	148.172	-0.224	-2.401	1.00	0.00
ATOM 1187	2HG2	VAL A	82	146.703	-0.488	-3.341	1.00	0.00
ATOM 1188	3HG2	VAL A	82	147.326	1.146	-3.118	1.00	0.00
ATOM 1189	N	LYS A	83	147.878	2.467	-6.127	1.00	0.00
ATOM 1190	CA	LYS A	83	147.030	3.595	-6.496	1.00	0.00
ATOM 1191	C	LYS A	83	145.755	3.614	-5.663	1.00	0.00
ATOM 1192	O	LYS A	83	144.987	2.651	-5.660	1.00	0.00
ATOM 1193	CB	LYS A	83	146.683	3.532	-7.985	1.00	0.00
ATOM 1194	CG	LYS A	83	147.897	3.596	-8.895	1.00	0.00
ATOM 1195	CD	LYS A	83	147.601	2.995	-10.260	1.00	0.00
ATOM 1196	CE	LYS A	83	148.279	3.778	-11.373	1.00	0.00

ATOM 1197	NZ	LYS A	83	148.808	2.884	-12.439	1.00	0.00
ATOM 1198	H	LYS A	83	147.989	1.725	-6.758	1.00	0.00
ATOM 1199	HA	LYS A	83	147.583	4.502	-6.304	1.00	0.00
ATOM 1200	1HB	LYS A	83	146.160	2.608	-8.181	1.00	0.00
ATOM 1201	2HB	LYS A	83	146.034	4.361	-8.225	1.00	0.00
ATOM 1202	1HG	LYS A	83	148.185	4.629	-9.023	1.00	0.00
ATOM 1203	2HG	LYS A	83	148.708	3.047	-8.439	1.00	0.00
ATOM 1204	1HD	LYS A	83	147.961	1.977	-10.280	1.00	0.00
ATOM 1205	2HD	LYS A	83	146.534	3.005	-10.421	1.00	0.00
ATOM 1206	1HE	LYS A	83	147.559	4.455	-11.810	1.00	0.00
ATOM 1207	2HE	LYS A	83	149.096	4.346	-10.952	1.00	0.00
ATOM 1208	1HZ	LYS A	83	149.205	2.020	-12.015	1.00	0.00
ATOM 1209	2HZ	LYS A	83	149.557	3.368	-12.974	1.00	0.00
ATOM 1210	3HZ	LYS A	83	148.046	2.618	-13.094	1.00	0.00
ATOM 1211	N	LEU A	84	145.535	4.718	-4.959	1.00	0.00
ATOM 1212	CA	LEU A	84	144.352	4.870	-4.120	1.00	0.00
ATOM 1213	C	LEU A	84	143.077	4.738	-4.947	1.00	0.00
ATOM 1214	O	LEU A	84	142.063	4.234	-4.466	1.00	0.00
ATOM 1215	CB	LEU A	84	144.380	6.228	-3.414	1.00	0.00
ATOM 1216	CG	LEU A	84	143.142	6.549	-2.574	1.00	0.00
ATOM 1217	CD1	LEU A	84	143.231	5.874	-1.214	1.00	0.00
ATOM 1218	CD2	LEU A	84	142.985	8.054	-2.414	1.00	0.00
ATOM 1219	H	LEU A	84	146.184	5.450	-5.003	1.00	0.00
ATOM 1220	HA	LEU A	84	144.368	4.087	-3.376	1.00	0.00
ATOM 1221	1HB	LEU A	84	145.245	6.255	-2.768	1.00	0.00
ATOM 1222	2HB	LEU A	84	144.488	6.995	-4.164	1.00	0.00
ATOM 1223	HG	LEU A	84	142.265	6.171	-3.077	1.00	0.00
ATOM 1224	1HD1	LEU A	84	144.055	6.293	-0.656	1.00	0.00
ATOM 1225	2HD1	LEU A	84	143.388	4.813	-1.349	1.00	0.00

ATOM 1226	3HD1	LEU A	84	142.310	6.034	-0.672	1.00	0.00
ATOM 1227	1HD2	LEU A	84	142.097	8.263	-1.837	1.00	0.00
ATOM 1228	2HD2	LEU A	84	142.898	8.512	-3.388	1.00	0.00
ATOM 1229	3HD2	LEU A	84	143.848	8.454	-1.904	1.00	0.00
ATOM 1230	N	LYS A	85	143.138	5.191	-6.194	1.00	0.00
ATOM 1231	CA	LYS A	85	141.990	5.122	-7.089	1.00	0.00
ATOM 1232	C	LYS A	85	141.606	3.673	-7.372	1.00	0.00
ATOM 1233	O	LYS A	85	140.448	3.373	-7.667	1.00	0.00
ATOM 1234	CB	LYS A	85	142.293	5.847	-8.402	1.00	0.00
ATOM 1235	CG	LYS A	85	143.649	5.494	-8.994	1.00	0.00
ATOM 1236	CD	LYS A	85	144.650	6.623	-8.809	1.00	0.00
ATOM 1237	CE	LYS A	85	144.379	7.771	-9.768	1.00	0.00
ATOM 1238	NZ	LYS A	85	144.695	9.092	-9.156	1.00	0.00
ATOM 1239	H	LYS A	85	143.976	5.581	-6.521	1.00	0.00
ATOM 1240	HA	LYS A	85	141.161	5.612	-6.602	1.00	0.00
ATOM 1241	1HB	LYS A	85	141.531	5.593	-9.125	1.00	0.00
ATOM 1242	2HB	LYS A	85	142.267	6.912	-8.225	1.00	0.00
ATOM 1243	1HG	LYS A	85	144.025	4.609	-8.504	1.00	0.00
ATOM 1244	2HG	LYS A	85	143.529	5.300	-10.050	1.00	0.00
ATOM 1245	1HD	LYS A	85	144.583	6.990	-7.796	1.00	0.00
ATOM 1246	2HD	LYS A	85	145.645	6.241	-8.991	1.00	0.00
ATOM 1247	1HE	LYS A	85	144.987	7.639	-10.650	1.00	0.00
ATOM 1248	2HE	LYS A	85	143.335	7.753	-10.045	1.00	0.00
ATOM 1249	1HZ	LYS A	85	143.841	9.499	-8.724	1.00	0.00
ATOM 1250	2HZ	LYS A	85	145.048	9.748	-9.883	1.00	0.00
ATOM 1251	3HZ	LYS A	85	145.423	8.980	-8.422	1.00	0.00
ATOM 1252	N	SER A	86	142.584	2.775	-7.280	1.00	0.00
ATOM 1253	CA	SER A	86	142.345	1.358	-7.525	1.00	0.00
ATOM 1254	C	SER A	86	142.297	0.580	-6.214	1.00	0.00

ATOM 1255	O	SER A	86	142.676	-0.590	-6.160	1.00	0.00
ATOM 1256	CB	SER A	86	143.436	0.785	-8.432	1.00	0.00
ATOM 1257	OG	SER A	86	143.186	1.098	-9.791	1.00	0.00
ATOM 1258	H	SER A	86	143.486	3.074	-7.041	1.00	0.00
ATOM 1259	HA	SER A	86	141.391	1.263	-8.022	1.00	0.00
ATOM 1260	1HB	SER A	86	144.392	1.203	-8.149	1.00	0.00
ATOM 1261	2HB	SER A	86	143.467	-0.288	-8.321	1.00	0.00
ATOM 1262	HG	SER A	86	143.785	0.598	-10.350	1.00	0.00
ATOM 1263	N	CYS A	87	141.826	1.238	-5.159	1.00	0.00
ATOM 1264	CA	CYS A	87	141.728	0.608	-3.846	1.00	0.00
ATOM 1265	C	CYS A	87	140.270	0.475	-3.416	1.00	0.00
ATOM 1266	O	CYS A	87	139.516	1.447	-3.434	1.00	0.00
ATOM 1267	CB	CYS A	87	142.505	1.419	-2.808	1.00	0.00
ATOM 1268	SG	CYS A	87	144.295	1.167	-2.864	1.00	0.00
ATOM 1269	H	CYS A	87	141.539	2.169	-5.264	1.00	0.00
ATOM 1270	HA	CYS A	87	142.161	-0.378	-3.918	1.00	0.00
ATOM 1271	1HB	CYS A	87	142.317	2.470	-2.968	1.00	0.00
ATOM 1272	2HB	CYS A	87	142.164	1.146	-1.820	1.00	0.00
ATOM 1273	HG	CYS A	87	144.701	1.992	-3.141	1.00	0.00
ATOM 1274	N	ARG A	88	139.880	-0.736	-3.030	1.00	0.00
ATOM 1275	CA	ARG A	88	138.512	-0.995	-2.595	1.00	0.00
ATOM 1276	C	ARG A	88	138.430	-1.067	-1.070	1.00	0.00
ATOM 1277	O	ARG A	88	139.290	-1.665	-0.424	1.00	0.00
ATOM 1278	CB	ARG A	88	138.000	-2.300	-3.207	1.00	0.00
ATOM 1279	CG	ARG A	88	137.215	-2.102	-4.496	1.00	0.00
ATOM 1280	CD	ARG A	88	135.847	-2.762	-4.426	1.00	0.00
ATOM 1281	NE	ARG A	88	135.501	-3.440	-5.673	1.00	0.00
ATOM 1282	CZ	ARG A	88	136.046	-4.589	-6.067	1.00	0.00
ATOM 1283	NH1	ARG A	88	136.960	-5.190	-5.316	1.00	0.00

ATOM 1284	NH2	ARG A	88	135.675	-5.138	-7.216	1.00	0.00
ATOM 1285	H	ARG A	88	140.527	-1.472	-3.037	1.00	0.00
ATOM 1286	HA	ARG A	88	137.897	-0.179	-2.942	1.00	0.00
ATOM 1287	1HB	ARG A	88	138.844	-2.940	-3.420	1.00	0.00
ATOM 1288	2HB	ARG A	88	137.357	-2.793	-2.491	1.00	0.00
ATOM 1289	1HG	ARG A	88	137.085	-1.044	-4.666	1.00	0.00
ATOM 1290	2HG	ARG A	88	137.773	-2.534	-5.313	1.00	0.00
ATOM 1291	1HD	ARG A	88	135.849	-3.484	-3.624	1.00	0.00
ATOM 1292	2HD	ARG A	88	135.106	-2.002	-4.223	1.00	0.00
ATOM 1293	HE	ARG A	88	134.829	-3.017	-6.247	1.00	0.00
ATOM 1294	1HH1	ARG A	88	137.245	-4.782	-4.449	1.00	0.00
ATOM 1295	2HH1	ARG A	88	137.365	-6.054	-5.618	1.00	0.00
ATOM 1296	1HH2	ARG A	88	134.986	-4.690	-7.785	1.00	0.00
ATOM 1297	2HH2	ARG A	88	136.084	-6.001	-7.512	1.00	0.00
ATOM 1298	N	PRO A	89	137.389	-0.458	-0.470	1.00	0.00
ATOM 1299	CA	PRO A	89	137.207	-0.463	0.985	1.00	0.00
ATOM 1300	C	PRO A	89	137.212	-1.874	1.563	1.00	0.00
ATOM 1301	O	PRO A	89	136.542	-2.770	1.047	1.00	0.00
ATOM 1302	CB	PRO A	89	135.834	0.187	1.178	1.00	0.00
ATOM 1303	CG	PRO A	89	135.628	1.014	-0.042	1.00	0.00
ATOM 1304	CD	PRO A	89	136.314	0.280	-1.159	1.00	0.00
ATOM 1305	HA	PRO A	89	137.962	0.129	1.480	1.00	0.00
ATOM 1306	1HB	PRO A	89	135.080	-0.582	1.268	1.00	0.00
ATOM 1307	2HB	PRO A	89	135.843	0.795	2.070	1.00	0.00
ATOM 1308	1HG	PRO A	89	134.572	1.109	-0.247	1.00	0.00
ATOM 1309	2HG	PRO A	89	136.074	1.988	0.095	1.00	0.00
ATOM 1310	1HD	PRO A	89	135.627	-0.400	-1.641	1.00	0.00
ATOM 1311	2HD	PRO A	89	136.721	0.978	-1.875	1.00	0.00
ATOM 1312	N	ASP A	90	137.971	-2.066	2.637	1.00	0.00

ATOM 1313	CA	ASP A	90	138.062	-3.369	3.286	1.00	0.00
ATOM 1314	C	ASP A	90	137.194	-3.414	4.539	1.00	0.00
ATOM 1315	O	ASP A	90	137.553	-2.852	5.574	1.00	0.00
ATOM 1316	CB	ASP A	90	139.515	-3.683	3.646	1.00	0.00
ATOM 1317	CG	ASP A	90	139.770	-5.170	3.779	1.00	0.00
ATOM 1318	OD1	ASP A	90	138.998	-5.960	3.194	1.00	0.00
ATOM 1319	OD2	ASP A	90	140.742	-5.547	4.466	1.00	0.00
ATOM 1320	H	ASP A	90	138.481	-1.313	3.003	1.00	0.00
ATOM 1321	HA	ASP A	90	137.705	-4.112	2.588	1.00	0.00
ATOM 1322	1HB	ASP A	90	140.163	-3.293	2.876	1.00	0.00
ATOM 1323	2HB	ASP A	90	139.756	-3.209	4.586	1.00	0.00
ATOM 1324	N	SER A	91	136.051	-4.083	4.438	1.00	0.00
ATOM 1325	CA	SER A	91	135.132	-4.199	5.565	1.00	0.00
ATOM 1326	C	SER A	91	135.319	-5.531	6.287	1.00	0.00
ATOM 1327	O	SER A	91	134.391	-6.042	6.914	1.00	0.00
ATOM 1328	CB	SER A	91	133.685	-4.070	5.084	1.00	0.00
ATOM 1329	OG	SER A	91	132.862	-3.503	6.087	1.00	0.00
ATOM 1330	H	SER A	91	135.820	-4.509	3.586	1.00	0.00
ATOM 1331	HA	SER A	91	135.347	-3.396	6.253	1.00	0.00
ATOM 1332	1HB	SER A	91	133.654	-3.437	4.210	1.00	0.00
ATOM 1333	2HB	SER A	91	133.305	-5.048	4.835	1.00	0.00
ATOM 1334	HG	SER A	91	132.155	-4.114	6.306	1.00	0.00
ATOM 1335	N	ARG A	92	136.523	-6.087	6.196	1.00	0.00
ATOM 1336	CA	ARG A	92	136.827	-7.358	6.843	1.00	0.00
ATOM 1337	C	ARG A	92	136.775	-7.223	8.361	1.00	0.00
ATOM 1338	O	ARG A	92	136.495	-8.190	9.069	1.00	0.00
ATOM 1339	CB	ARG A	92	138.206	-7.857	6.410	1.00	0.00
ATOM 1340	CG	ARG A	92	138.174	-8.739	5.172	1.00	0.00
ATOM 1341	CD	ARG A	92	138.248	-10.214	5.535	1.00	0.00

ATOM 1342	NE	ARG A	92	136.935	-10.764	5.863	1.00	0.00
ATOM 1343	CZ	ARG A	92	136.749	-11.965	6.405	1.00	0.00
ATOM 1344	NH1	ARG A	92	137.787	-12.744	6.682	1.00	0.00
ATOM 1345	NH2	ARG A	92	135.521	-12.389	6.672	1.00	0.00
ATOM 1346	H	ARG A	92	137.223	-5.632	5.683	1.00	0.00
ATOM 1347	HA	ARG A	92	136.081	-8.074	6.531	1.00	0.00
ATOM 1348	1HB	ARG A	92	138.836	-7.006	6.201	1.00	0.00
ATOM 1349	2HB	ARG A	92	138.641	-8.425	7.219	1.00	0.00
ATOM 1350	1HG	ARG A	92	137.254	-8.557	4.636	1.00	0.00
ATOM 1351	2HG	ARG A	92	139.014	-8.489	4.541	1.00	0.00
ATOM 1352	1HD	ARG A	92	138.656	-10.758	4.696	1.00	0.00
ATOM 1353	2HD	ARG A	92	138.899	-10.328	6.388	1.00	0.00
ATOM 1354	HE	ARG A	92	136.150	-10.210	5.669	1.00	0.00
ATOM 1355	1HH1	ARG A	92	138.716	-12.431	6.484	1.00	0.00
ATOM 1356	2HH1	ARG A	92	137.641	-13.646	7.089	1.00	0.00
ATOM 1357	1HH2	ARG A	92	134.735	-11.806	6.465	1.00	0.00
ATOM 1358	2HH2	ARG A	92	135.380	-13.291	7.079	1.00	0.00
ATOM 1359	N	PHE A	93	137.048	-6.019	8.855	1.00	0.00
ATOM 1360	CA	PHE A	93	137.034	-5.761	10.290	1.00	0.00
ATOM 1361	C	PHE A	93	135.930	-4.775	10.661	1.00	0.00
ATOM 1362	O	PHE A	93	136.032	-4.064	11.661	1.00	0.00
ATOM 1363	CB	PHE A	93	138.389	-5.219	10.745	1.00	0.00
ATOM 1364	CG	PHE A	93	139.526	-6.177	10.522	1.00	0.00
ATOM 1365	CD1	PHE A	93	139.891	-6.553	9.239	1.00	0.00
ATOM 1366	CD2	PHE A	93	140.229	-6.702	11.595	1.00	0.00
ATOM 1367	CE1	PHE A	93	140.935	-7.433	9.030	1.00	0.00
ATOM 1368	CE2	PHE A	93	141.274	-7.583	11.393	1.00	0.00
ATOM 1369	CZ	PHE A	93	141.628	-7.948	10.109	1.00	0.00
ATOM 1370	H	PHE A	93	137.266	-5.288	8.240	1.00	0.00

ATOM 1371	HA	PHE A	93	136.845	-6.699	10.792	1.00	0.00
ATOM 1372	1HB	PHE A	93	138.608	-4.314	10.200	1.00	0.00
ATOM 1373	2HB	PHE A	93	138.344	-4.997	11.801	1.00	0.00
ATOM 1374	HD1	PHE A	93	139.349	-6.151	8.395	1.00	0.00
ATOM 1375	HD2	PHE A	93	139.952	-6.416	12.599	1.00	0.00
ATOM 1376	HE1	PHE A	93	141.209	-7.719	8.026	1.00	0.00
ATOM 1377	HE2	PHE A	93	141.813	-7.983	12.237	1.00	0.00
ATOM 1378	HZ	PHE A	93	142.445	-8.637	9.949	1.00	0.00
ATOM 1379	N	ALA A	94	134.873	-4.736	9.854	1.00	0.00
ATOM 1380	CA	ALA A	94	133.756	-3.835	10.107	1.00	0.00
ATOM 1381	C	ALA A	94	132.757	-4.457	11.077	1.00	0.00
ATOM 1382	O	ALA A	94	132.321	-5.594	10.889	1.00	0.00
ATOM 1383	CB	ALA A	94	133.067	-3.468	8.802	1.00	0.00
ATOM 1384	H	ALA A	94	134.845	-5.326	9.071	1.00	0.00
ATOM 1385	HA	ALA A	94	134.151	-2.930	10.545	1.00	0.00
ATOM 1386	1HB	ALA A	94	132.561	-4.335	8.406	1.00	0.00
ATOM 1387	2HB	ALA A	94	133.804	-3.125	8.090	1.00	0.00
ATOM 1388	3HB	ALA A	94	132.349	-2.681	8.982	1.00	0.00
ATOM 1389	N	SER A	95	132.399	-3.706	12.113	1.00	0.00
ATOM 1390	CA	SER A	95	131.452	-4.186	13.113	1.00	0.00
ATOM 1391	C	SER A	95	130.078	-3.554	12.910	1.00	0.00
ATOM 1392	O	SER A	95	129.848	-2.409	13.298	1.00	0.00
ATOM 1393	CB	SER A	95	131.965	-3.878	14.521	1.00	0.00
ATOM 1394	OG	SER A	95	133.165	-4.580	14.792	1.00	0.00
ATOM 1395	H	SER A	95	132.781	-2.810	12.209	1.00	0.00
ATOM 1396	HA	SER A	95	131.362	-5.256	12.998	1.00	0.00
ATOM 1397	1HB	SER A	95	132.155	-2.819	14.609	1.00	0.00
ATOM 1398	2HB	SER A	95	131.219	-4.171	15.246	1.00	0.00
ATOM 1399	HG	SER A	95	133.818	-4.372	14.120	1.00	0.00

ATOM 1400	N	LEU A	96	129.170	-4.307	12.301	1.00	0.00
ATOM 1401	CA	LEU A	96	127.818	-3.822	12.047	1.00	0.00
ATOM 1402	C	LEU A	96	126.868	-4.978	11.769	1.00	0.00
ATOM 1403	O	LEU A	96	125.968	-5.262	12.560	1.00	0.00
ATOM 1404	CB	LEU A	96	127.817	-2.846	10.868	1.00	0.00
ATOM 1405	CG	LEU A	96	126.848	-1.671	11.002	1.00	0.00
ATOM 1406	CD1	LEU A	96	127.276	-0.753	12.137	1.00	0.00
ATOM 1407	CD2	LEU A	96	126.762	-0.899	9.694	1.00	0.00
ATOM 1408	H	LEU A	96	129.413	-5.213	12.014	1.00	0.00
ATOM 1409	HA	LEU A	96	127.483	-3.305	12.929	1.00	0.00
ATOM 1410	1HB	LEU A	96	128.815	-2.452	10.753	1.00	0.00
ATOM 1411	2HB	LEU A	96	127.560	-3.395	9.974	1.00	0.00
ATOM 1412	HG	LEU A	96	125.861	-2.049	11.233	1.00	0.00
ATOM 1413	1HD1	LEU A	96	126.400	-0.374	12.643	1.00	0.00
ATOM 1414	2HD1	LEU A	96	127.846	0.072	11.737	1.00	0.00
ATOM 1415	3HD1	LEU A	96	127.884	-1.307	12.837	1.00	0.00
ATOM 1416	1HD2	LEU A	96	126.248	-1.497	8.956	1.00	0.00
ATOM 1417	2HD2	LEU A	96	127.759	-0.675	9.343	1.00	0.00
ATOM 1418	3HD2	LEU A	96	126.220	0.021	9.852	1.00	0.00
ATOM 1419	N	GLN A	97	127.076	-5.641	10.640	1.00	0.00
ATOM 1420	CA	GLN A	97	126.241	-6.771	10.249	1.00	0.00
ATOM 1421	C	GLN A	97	126.998	-7.707	9.308	1.00	0.00
ATOM 1422	O	GLN A	97	127.832	-7.264	8.518	1.00	0.00
ATOM 1423	CB	GLN A	97	124.960	-6.276	9.574	1.00	0.00
ATOM 1424	CG	GLN A	97	123.774	-6.178	10.520	1.00	0.00
ATOM 1425	CD	GLN A	97	123.253	-7.538	10.943	1.00	0.00
ATOM 1426	OE1	GLN A	97	122.361	-8.099	10.307	1.00	0.00
ATOM 1427	NE2	GLN A	97	123.808	-8.075	12.023	1.00	0.00
ATOM 1428	H	GLN A	97	127.810	-5.364	10.056	1.00	0.00

ATOM 1429	HA	GLN A	97	125.980	-7.314	11.144	1.00	0.00
ATOM 1430	1HB	GLN A	97	125.141	-5.296	9.157	1.00	0.00
ATOM 1431	2HB	GLN A	97	124.700	-6.955	8.775	1.00	0.00
ATOM 1432	1HG	GLN A	97	124.077	-5.636	11.403	1.00	0.00
ATOM 1433	2HG	GLN A	97	122.978	-5.642	10.025	1.00	0.00
ATOM 1434	1HE2	GLN A	97	124.514	-7.571	12.480	1.00	0.00
ATOM 1435	2HE2	GLN A	97	123.490	-8.953	12.319	1.00	0.00
ATOM 1436	N	PRO A	98	126.716	-9.019	9.381	1.00	0.00
ATOM 1437	CA	PRO A	98	127.376	-10.016	8.532	1.00	0.00
ATOM 1438	C	PRO A	98	127.270	-9.675	7.049	1.00	0.00
ATOM 1439	O	PRO A	98	126.214	-9.258	6.572	1.00	0.00
ATOM 1440	CB	PRO A	98	126.617	-11.309	8.838	1.00	0.00
ATOM 1441	CG	PRO A	98	126.044	-11.102	10.197	1.00	0.00
ATOM 1442	CD	PRO A	98	125.737	-9.634	10.295	1.00	0.00
ATOM 1443	HA	PRO A	98	128.417	-10.136	8.797	1.00	0.00
ATOM 1444	1HB	PRO A	98	125.842	-11.458	8.100	1.00	0.00
ATOM 1445	2HB	PRO A	98	127.301	-12.145	8.822	1.00	0.00
ATOM 1446	1HG	PRO A	98	125.141	-11.683	10.308	1.00	0.00
ATOM 1447	2HG	PRO A	98	126.768	-11.384	10.947	1.00	0.00
ATOM 1448	1HD	PRO A	98	124.726	-9.437	9.967	1.00	0.00
ATOM 1449	2HD	PRO A	98	125.881	-9.285	11.307	1.00	0.00
ATOM 1450	N	SER A	99	128.369	-9.858	6.324	1.00	0.00
ATOM 1451	CA	SER A	99	128.399	-9.570	4.895	1.00	0.00
ATOM 1452	C	SER A	99	128.077	-8.103	4.626	1.00	0.00
ATOM 1453	O	SER A	99	127.588	-7.393	5.505	1.00	0.00
ATOM 1454	CB	SER A	99	127.406	-10.466	4.153	1.00	0.00
ATOM 1455	OG	SER A	99	127.943	-10.913	2.920	1.00	0.00
ATOM 1456	H	SER A	99	129.179	-10.193	6.762	1.00	0.00
ATOM 1457	HA	SER A	99	129.395	-9.779	4.536	1.00	0.00

ATOM 1458	1HB	SER A	99	127.175	-11.327	4.763	1.00	0.00
ATOM 1459	2HB	SER A	99	126.500	-9.912	3.957	1.00	0.00
ATOM 1460	HG	SER A	99	128.190	-10.155	2.385	1.00	0.00
ATOM 1461	N	GLY A	100	128.355	-7.656	3.406	1.00	0.00
ATOM 1462	CA	GLY A	100	128.090	-6.277	3.042	1.00	0.00
ATOM 1463	C	GLY A	100	126.602	-5.977	2.953	1.00	0.00
ATOM 1464	O	GLY A	100	125.843	-6.340	3.851	1.00	0.00
ATOM 1465	H	GLY A	100	128.744	-8.268	2.747	1.00	0.00
ATOM 1466	1HA	GLY A	100	128.532	-5.629	3.784	1.00	0.00
ATOM 1467	2HA	GLY A	100	128.546	-6.077	2.085	1.00	0.00
ATOM 1468	N	PRO A	101	126.151	-5.310	1.875	1.00	0.00
ATOM 1469	CA	PRO A	101	124.735	-4.972	1.693	1.00	0.00
ATOM 1470	C	PRO A	101	123.819	-6.174	1.896	1.00	0.00
ATOM 1471	O	PRO A	101	122.650	-6.023	2.253	1.00	0.00
ATOM 1472	CB	PRO A	101	124.670	-4.489	0.244	1.00	0.00
ATOM 1473	CG	PRO A	101	126.037	-3.973	-0.043	1.00	0.00
ATOM 1474	CD	PRO A	101	126.981	-4.835	0.750	1.00	0.00
ATOM 1475	HA	PRO A	101	124.431	-4.174	2.356	1.00	0.00
ATOM 1476	1HB	PRO A	101	124.414	-5.316	-0.403	1.00	0.00
ATOM 1477	2HB	PRO A	101	123.928	-3.710	0.154	1.00	0.00
ATOM 1478	1HG	PRO A	101	126.247	-4.059	-1.099	1.00	0.00
ATOM 1479	2HG	PRO A	101	126.115	-2.943	0.273	1.00	0.00
ATOM 1480	1HD	PRO A	101	127.328	-5.664	0.151	1.00	0.00
ATOM 1481	2HD	PRO A	101	127.815	-4.250	1.108	1.00	0.00
ATOM 1482	N	SER A	102	124.356	-7.368	1.667	1.00	0.00
ATOM 1483	CA	SER A	102	123.586	-8.596	1.826	1.00	0.00
ATOM 1484	C	SER A	102	122.398	-8.621	0.870	1.00	0.00
ATOM 1485	O	SER A	102	121.465	-7.828	1.002	1.00	0.00
ATOM 1486	CB	SER A	102	123.096	-8.734	3.269	1.00	0.00

ATOM 1487 OG SER A 102 122.624 -10.046 3.525 1.00 0.00
ATOM 1488 H SER A 102 125.293 -7.425 1.385 1.00 0.00
ATOM 1489 HA SER A 102 124.235 -9.427 1.595 1.00 0.00
ATOM 1490 1HB SER A 102 123.910 -8.520 3.946 1.00 0.00
ATOM 1491 2HB SER A 102 122.292 -8.035 3.442 1.00 0.00
ATOM 1492 HG SER A 102 122.058 -10.037 4.300 1.00 0.00
ATOM 1493 N SER A 103 122.438 -9.537 -0.093 1.00 0.00
ATOM 1494 CA SER A 103 121.366 -9.665 -1.072 1.00 0.00
ATOM 1495 C SER A 103 120.185 -10.435 -0.487 1.00 0.00
ATOM 1496 O SER A 103 119.033 -10.025 -0.627 1.00 0.00
ATOM 1497 CB SER A 103 121.876 -10.370 -2.329 1.00 0.00
ATOM 1498 OG SER A 103 120.830 -10.568 -3.265 1.00 0.00
ATOM 1499 H SER A 103 123.209 -10.140 -0.146 1.00 0.00
ATOM 1500 HA SER A 103 121.037 -8.671 -1.335 1.00 0.00
ATOM 1501 1HB SER A 103 122.644 -9.767 -2.791 1.00 0.00
ATOM 1502 2HB SER A 103 122.287 -11.331 -2.059 1.00 0.00
ATOM 1503 HG SER A 103 120.950 -9.976 -4.010 1.00 0.00
ATOM 1504 N GLY A 104 120.480 -11.552 0.168 1.00 0.00
ATOM 1505 CA GLY A 104 119.434 -12.362 0.764 1.00 0.00
ATOM 1506 C GLY A 104 119.128 -11.954 2.192 1.00 0.00
ATOM 1507 O GLY A 104 119.791 -12.475 3.113 1.00 0.00
ATOM 1508 OXT GLY A 104 118.225 -11.113 2.389 1.00 0.00
ATOM 1509 H GLY A 104 121.417 -11.830 0.247 1.00 0.00
ATOM 1510 1HA GLY A 104 118.536 -12.261 0.173 1.00 0.00
ATOM 1511 2HA GLY A 104 119.745 -13.396 0.755 1.00 0.00
TER 1512 GLY A 104
ENDMDL

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ATOM 1	N	GLY A	1	109.574	7.515	6.275	1.00	0.00
ATOM 2	CA	GLY A	1	110.983	7.839	5.923	1.00	0.00
ATOM 3	C	GLY A	1	111.857	6.603	5.837	1.00	0.00
ATOM 4	O	GLY A	1	111.736	5.690	6.653	1.00	0.00
ATOM 5	1H	GLY A	1	109.009	7.388	5.412	1.00	0.00
ATOM 6	2H	GLY A	1	109.159	8.287	6.836	1.00	0.00
ATOM 7	3H	GLY A	1	109.537	6.638	6.833	1.00	0.00
ATOM 8	1HA	GLY A	1	110.998	8.343	4.967	1.00	0.00
ATOM 9	2HA	GLY A	1	111.388	8.501	6.674	1.00	0.00
ATOM 10	N	SER A	2	112.742	6.574	4.845	1.00	0.00
ATOM 11	CA	SER A	2	113.641	5.442	4.655	1.00	0.00
ATOM 12	C	SER A	2	115.081	5.913	4.477	1.00	0.00
ATOM 13	O	SER A	2	115.554	6.083	3.353	1.00	0.00
ATOM 14	CB	SER A	2	113.208	4.619	3.441	1.00	0.00
ATOM 15	OG	SER A	2	114.165	3.619	3.134	1.00	0.00
ATOM 16	H	SER A	2	112.791	7.333	4.226	1.00	0.00
ATOM 17	HA	SER A	2	113.584	4.822	5.537	1.00	0.00
ATOM 18	1HB	SER A	2	112.263	4.141	3.650	1.00	0.00
ATOM 19	2HB	SER A	2	113.100	5.272	2.587	1.00	0.00
ATOM 20	HG	SER A	2	114.942	4.028	2.745	1.00	0.00
ATOM 21	N	SER A	3	115.771	6.123	5.593	1.00	0.00
ATOM 22	CA	SER A	3	117.157	6.575	5.561	1.00	0.00
ATOM 23	C	SER A	3	118.117	5.391	5.619	1.00	0.00
ATOM 24	O	SER A	3	118.026	4.548	6.511	1.00	0.00
ATOM 25	CB	SER A	3	117.432	7.527	6.725	1.00	0.00
ATOM 26	OG	SER A	3	118.306	8.573	6.335	1.00	0.00
ATOM 27	H	SER A	3	115.338	5.970	6.459	1.00	0.00
ATOM 28	HA	SER A	3	117.312	7.102	4.632	1.00	0.00

ATOM 29	1HB	SER A	3	116.502	7.960	7.063	1.00	0.00
ATOM 30	2HB	SER A	3	117.889	6.978	7.537	1.00	0.00
ATOM 31	HG	SER A	3	119.206	8.241	6.298	1.00	0.00
ATOM 32	N	GLY A	4	119.037	5.334	4.662	1.00	0.00
ATOM 33	CA	GLY A	4	120.001	4.250	4.623	1.00	0.00
ATOM 34	C	GLY A	4	120.628	4.080	3.253	1.00	0.00
ATOM 35	O	GLY A	4	121.843	3.920	3.135	1.00	0.00
ATOM 36	H	GLY A	4	119.063	6.035	3.977	1.00	0.00
ATOM 37	1HA	GLY A	4	120.782	4.451	5.342	1.00	0.00
ATOM 38	2HA	GLY A	4	119.503	3.331	4.896	1.00	0.00
ATOM 39	N	SER A	5	119.798	4.115	2.216	1.00	0.00
ATOM 40	CA	SER A	5	120.278	3.963	0.847	1.00	0.00
ATOM 41	C	SER A	5	120.423	5.321	0.168	1.00	0.00
ATOM 42	O	SER A	5	120.246	5.441	-1.044	1.00	0.00
ATOM 43	CB	SER A	5	119.322	3.079	0.044	1.00	0.00
ATOM 44	OG	SER A	5	119.831	2.823	-1.253	1.00	0.00
ATOM 45	H	SER A	5	118.839	4.245	2.375	1.00	0.00
ATOM 46	HA	SER A	5	121.246	3.487	0.887	1.00	0.00
ATOM 47	1HB	SER A	5	119.190	2.137	0.557	1.00	0.00
ATOM 48	2HB	SER A	5	118.367	3.575	-0.048	1.00	0.00
ATOM 49	HG	SER A	5	119.113	2.852	-1.890	1.00	0.00
ATOM 50	N	SER A	6	120.749	6.340	0.957	1.00	0.00
ATOM 51	CA	SER A	6	120.918	7.689	0.431	1.00	0.00
ATOM 52	C	SER A	6	122.386	7.974	0.128	1.00	0.00
ATOM 53	O	SER A	6	123.256	7.772	0.975	1.00	0.00
ATOM 54	CB	SER A	6	120.383	8.718	1.429	1.00	0.00
ATOM 55	OG	SER A	6	119.051	8.418	1.807	1.00	0.00
ATOM 56	H	SER A	6	120.877	6.180	1.915	1.00	0.00
ATOM 57	HA	SER A	6	120.353	7.761	-0.485	1.00	0.00

ATOM 58	1HB	SER A	6	121.003	8.716	2.314	1.00	0.00
ATOM 59	2HB	SER A	6	120.404	9.699	0.976	1.00	0.00
ATOM 60	HG	SER A	6	118.527	8.244	1.021	1.00	0.00
ATOM 61	N	GLY A	7	122.652	8.444	-1.086	1.00	0.00
ATOM 62	CA	GLY A	7	124.015	8.748	-1.480	1.00	0.00
ATOM 63	C	GLY A	7	124.570	9.962	-0.761	1.00	0.00
ATOM 64	O	GLY A	7	124.094	10.326	0.314	1.00	0.00
ATOM 65	H	GLY A	7	121.918	8.585	-1.720	1.00	0.00
ATOM 66	1HA	GLY A	7	124.641	7.896	-1.260	1.00	0.00
ATOM 67	2HA	GLY A	7	124.039	8.932	-2.545	1.00	0.00
ATOM 68	N	LEU A	8	125.580	10.589	-1.355	1.00	0.00
ATOM 69	CA	LEU A	8	126.204	11.769	-0.765	1.00	0.00
ATOM 70	C	LEU A	8	126.921	11.411	0.531	1.00	0.00
ATOM 71	O	LEU A	8	127.000	12.224	1.453	1.00	0.00
ATOM 72	CB	LEU A	8	125.156	12.853	-0.502	1.00	0.00
ATOM 73	CG	LEU A	8	124.251	13.182	-1.691	1.00	0.00
ATOM 74	CD1	LEU A	8	122.874	13.613	-1.210	1.00	0.00
ATOM 75	CD2	LEU A	8	124.879	14.265	-2.554	1.00	0.00
ATOM 76	H	LEU A	8	125.917	10.249	-2.210	1.00	0.00
ATOM 77	HA	LEU A	8	126.930	12.146	-1.470	1.00	0.00
ATOM 78	1HB	LEU A	8	124.534	12.531	0.320	1.00	0.00
ATOM 79	2HB	LEU A	8	125.669	13.758	-0.210	1.00	0.00
ATOM 80	HG	LEU A	8	124.130	12.297	-2.298	1.00	0.00
ATOM 81	1HD1	LEU A	8	122.440	14.294	-1.927	1.00	0.00
ATOM 82	2HD1	LEU A	8	122.965	14.107	-0.254	1.00	0.00
ATOM 83	3HD1	LEU A	8	122.240	12.744	-1.109	1.00	0.00
ATOM 84	1HD2	LEU A	8	125.765	13.874	-3.036	1.00	0.00
ATOM 85	2HD2	LEU A	8	125.150	15.108	-1.935	1.00	0.00
ATOM 86	3HD2	LEU A	8	124.172	14.583	-3.305	1.00	0.00

ATOM 87	N	ALA A	9	127.439	10.190	0.595	1.00	0.00
ATOM 88	CA	ALA A	9	128.148	9.722	1.778	1.00	0.00
ATOM 89	C	ALA A	9	129.632	9.527	1.487	1.00	0.00
ATOM 90	O	ALA A	9	130.106	8.399	1.351	1.00	0.00
ATOM 91	CB	ALA A	9	127.533	8.427	2.285	1.00	0.00
ATOM 92	H	ALA A	9	127.342	9.588	-0.172	1.00	0.00
ATOM 93	HA	ALA A	9	128.038	10.471	2.548	1.00	0.00
ATOM 94	1HB	ALA A	9	127.579	8.404	3.365	1.00	0.00
ATOM 95	2HB	ALA A	9	128.080	7.587	1.884	1.00	0.00
ATOM 96	3HB	ALA A	9	126.502	8.370	1.968	1.00	0.00
ATOM 97	N	MET A	10	130.362	10.634	1.394	1.00	0.00
ATOM 98	CA	MET A	10	131.793	10.585	1.119	1.00	0.00
ATOM 99	C	MET A	10	132.527	11.709	1.846	1.00	0.00
ATOM 100	O	MET A	10	132.855	12.735	1.249	1.00	0.00
ATOM 101	CB	MET A	10	132.050	10.683	-0.386	1.00	0.00
ATOM 102	CG	MET A	10	131.113	9.826	-1.221	1.00	0.00
ATOM 103	SD	MET A	10	131.259	10.156	-2.988	1.00	0.00
ATOM 104	CE	MET A	10	130.176	11.573	-3.159	1.00	0.00
ATOM 105	H	MET A	10	129.928	11.504	1.513	1.00	0.00
ATOM 106	HA	MET A	10	132.167	9.638	1.477	1.00	0.00
ATOM 107	1HB	MET A	10	131.932	11.712	-0.693	1.00	0.00
ATOM 108	2HB	MET A	10	133.064	10.371	-0.587	1.00	0.00
ATOM 109	1HG	MET A	10	131.343	8.786	-1.044	1.00	0.00
ATOM 110	2HG	MET A	10	130.096	10.025	-0.915	1.00	0.00
ATOM 111	1HE	MET A	10	129.599	11.695	-2.255	1.00	0.00
ATOM 112	2HE	MET A	10	129.509	11.418	-3.994	1.00	0.00
ATOM 113	3HE	MET A	10	130.769	12.460	-3.331	1.00	0.00
ATOM 114	N	PRO A	11	132.795	11.531	3.151	1.00	0.00
ATOM 115	CA	PRO A	11	133.493	12.536	3.958	1.00	0.00

ATOM 116	C	PRO A	11	134.868	12.891	3.391	1.00	0.00
ATOM 117	O	PRO A	11	135.215	14.069	3.286	1.00	0.00
ATOM 118	CB	PRO A	11	133.637	11.869	5.330	1.00	0.00
ATOM 119	CG	PRO A	11	132.591	10.807	5.358	1.00	0.00
ATOM 120	CD	PRO A	11	132.441	10.338	3.939	1.00	0.00
ATOM 121	HA	PRO A	11	132.907	13.437	4.055	1.00	0.00
ATOM 122	1HB	PRO A	11	134.628	11.451	5.429	1.00	0.00
ATOM 123	2HB	PRO A	11	133.473	12.601	6.106	1.00	0.00
ATOM 124	1HG	PRO A	11	132.912	9.992	5.990	1.00	0.00
ATOM 125	2HG	PRO A	11	131.660	11.219	5.717	1.00	0.00
ATOM 126	1HD	PRO A	11	133.121	9.525	3.735	1.00	0.00
ATOM 127	2HD	PRO A	11	131.421	10.037	3.746	1.00	0.00
ATOM 128	N	PRO A	12	135.676	11.882	3.014	1.00	0.00
ATOM 129	CA	PRO A	12	137.010	12.110	2.462	1.00	0.00
ATOM 130	C	PRO A	12	136.973	12.458	0.977	1.00	0.00
ATOM 131	O	PRO A	12	137.853	13.154	0.470	1.00	0.00
ATOM 132	CB	PRO A	12	137.703	10.768	2.679	1.00	0.00
ATOM 133	CG	PRO A	12	136.606	9.762	2.590	1.00	0.00
ATOM 134	CD	PRO A	12	135.358	10.441	3.100	1.00	0.00
ATOM 135	HA	PRO A	12	137.538	12.883	3.000	1.00	0.00
ATOM 136	1HB	PRO A	12	138.447	10.614	1.912	1.00	0.00
ATOM 137	2HB	PRO A	12	138.172	10.754	3.653	1.00	0.00
ATOM 138	1HG	PRO A	12	136.473	9.458	1.563	1.00	0.00
ATOM 139	2HG	PRO A	12	136.843	8.907	3.206	1.00	0.00
ATOM 140	1HD	PRO A	12	134.516	10.195	2.468	1.00	0.00
ATOM 141	2HD	PRO A	12	135.162	10.148	4.119	1.00	0.00
ATOM 142	N	GLY A	13	135.948	11.969	0.286	1.00	0.00
ATOM 143	CA	GLY A	13	135.814	12.240	-1.134	1.00	0.00
ATOM 144	C	GLY A	13	136.106	11.020	-1.986	1.00	0.00

ATOM 145	O	GLY A	13	136.549	11.144	-3.128	1.00	0.00
ATOM 146	H	GLY A	13	135.277	11.422	0.744	1.00	0.00
ATOM 147	1HA	GLY A	13	134.806	12.572	-1.333	1.00	0.00
ATOM 148	2HA	GLY A	13	136.502	13.027	-1.405	1.00	0.00
ATOM 149	N	ASN A	14	135.856	9.839	-1.429	1.00	0.00
ATOM 150	CA	ASN A	14	136.095	8.591	-2.146	1.00	0.00
ATOM 151	C	ASN A	14	134.797	7.810	-2.324	1.00	0.00
ATOM 152	O	ASN A	14	133.725	8.271	-1.933	1.00	0.00
ATOM 153	CB	ASN A	14	137.118	7.736	-1.395	1.00	0.00
ATOM 154	CG	ASN A	14	138.547	8.090	-1.762	1.00	0.00
ATOM 155	OD1	ASN A	14	138.983	7.867	-2.891	1.00	0.00
ATOM 156	ND2	ASN A	14	139.282	8.643	-0.805	1.00	0.00
ATOM 157	H	ASN A	14	135.504	9.806	-0.516	1.00	0.00
ATOM 158	HA	ASN A	14	136.490	8.838	-3.120	1.00	0.00
ATOM 159	1HB	ASN A	14	136.991	7.884	-0.334	1.00	0.00
ATOM 160	2HB	ASN A	14	136.951	6.695	-1.633	1.00	0.00
ATOM 161	1HD2	ASN A	14	138.869	8.790	0.071	1.00	0.00
ATOM 162	2HD2	ASN A	14	140.209	8.881	-1.015	1.00	0.00
ATOM 163	N	SER A	15	134.902	6.626	-2.919	1.00	0.00
ATOM 164	CA	SER A	15	133.735	5.781	-3.150	1.00	0.00
ATOM 165	C	SER A	15	133.058	5.418	-1.833	1.00	0.00
ATOM 166	O	SER A	15	131.832	5.463	-1.721	1.00	0.00
ATOM 167	CB	SER A	15	134.141	4.509	-3.896	1.00	0.00
ATOM 168	OG	SER A	15	135.366	3.996	-3.402	1.00	0.00
ATOM 169	H	SER A	15	135.784	6.313	-3.209	1.00	0.00
ATOM 170	HA	SER A	15	133.038	6.338	-3.758	1.00	0.00
ATOM 171	1HB	SER A	15	133.375	3.759	-3.768	1.00	0.00
ATOM 172	2HB	SER A	15	134.256	4.732	-4.947	1.00	0.00
ATOM 173	HG	SER A	15	136.091	4.319	-3.944	1.00	0.00

ATOM 174	N	HIS A	16	133.863	5.058	-0.838	1.00	0.00
ATOM 175	CA	HIS A	16	133.341	4.686	0.472	1.00	0.00
ATOM 176	C	HIS A	16	134.065	5.445	1.580	1.00	0.00
ATOM 177	O	HIS A	16	133.516	6.377	2.169	1.00	0.00
ATOM 178	CB	HIS A	16	133.483	3.180	0.692	1.00	0.00
ATOM 179	CG	HIS A	16	132.282	2.396	0.262	1.00	0.00
ATOM 180	ND1	HIS A	16	131.541	1.618	1.126	1.00	0.00
ATOM 181	CD2	HIS A	16	131.693	2.273	-0.952	1.00	0.00
ATOM 182	CE1	HIS A	16	130.548	1.051	0.464	1.00	0.00
ATOM 183	NE2	HIS A	16	130.618	1.432	-0.798	1.00	0.00
ATOM 184	H	HIS A	16	134.832	5.042	-0.989	1.00	0.00
ATOM 185	HA	HIS A	16	132.294	4.948	0.497	1.00	0.00
ATOM 186	1HB	HIS A	16	134.332	2.819	0.131	1.00	0.00
ATOM 187	2HB	HIS A	16	133.645	2.990	1.743	1.00	0.00
ATOM 188	HD1	HIS A	16	131.716	1.500	2.082	1.00	0.00
ATOM 189	HD2	HIS A	16	132.008	2.749	-1.869	1.00	0.00
ATOM 190	HE1	HIS A	16	129.806	0.388	0.884	1.00	0.00
ATOM 191	HE2	HIS A	16	129.951	1.229	-1.486	1.00	0.00
ATOM 192	N	GLY A	17	135.299	5.039	1.859	1.00	0.00
ATOM 193	CA	GLY A	17	136.077	5.691	2.896	1.00	0.00
ATOM 194	C	GLY A	17	137.419	5.024	3.121	1.00	0.00
ATOM 195	O	GLY A	17	137.615	4.326	4.115	1.00	0.00
ATOM 196	H	GLY A	17	135.685	4.290	1.358	1.00	0.00
ATOM 197	1HA	GLY A	17	136.242	6.720	2.614	1.00	0.00
ATOM 198	2HA	GLY A	17	135.517	5.667	3.820	1.00	0.00
ATOM 199	N	LEU A	18	138.347	5.239	2.194	1.00	0.00
ATOM 200	CA	LEU A	18	139.679	4.652	2.295	1.00	0.00
ATOM 201	C	LEU A	18	140.695	5.688	2.766	1.00	0.00
ATOM 202	O	LEU A	18	141.140	6.534	1.990	1.00	0.00

ATOM 203	CB	LEU A	18	140.110	4.076	0.944	1.00	0.00
ATOM 204	CG	LEU A	18	139.159	3.035	0.352	1.00	0.00
ATOM 205	CD1	LEU A	18	139.352	2.932	-1.153	1.00	0.00
ATOM 206	CD2	LEU A	18	139.374	1.682	1.014	1.00	0.00
ATOM 207	H	LEU A	18	138.131	5.804	1.424	1.00	0.00
ATOM 208	HA	LEU A	18	139.635	3.854	3.019	1.00	0.00
ATOM 209	1HB	LEU A	18	140.201	4.892	0.242	1.00	0.00
ATOM 210	2HB	LEU A	18	141.080	3.618	1.066	1.00	0.00
ATOM 211	HG	LEU A	18	138.140	3.341	0.537	1.00	0.00
ATOM 212	1HD1	LEU A	18	140.299	2.457	-1.363	1.00	0.00
ATOM 213	2HD1	LEU A	18	139.342	3.921	-1.586	1.00	0.00
ATOM 214	3HD1	LEU A	18	138.553	2.344	-1.578	1.00	0.00
ATOM 215	1HD2	LEU A	18	139.165	1.761	2.069	1.00	0.00
ATOM 216	2HD2	LEU A	18	140.398	1.371	0.871	1.00	0.00
ATOM 217	3HD2	LEU A	18	138.711	0.955	0.568	1.00	0.00
ATOM 218	N	GLU A	19	141.056	5.617	4.043	1.00	0.00
ATOM 219	CA	GLU A	19	142.020	6.550	4.617	1.00	0.00
ATOM 220	C	GLU A	19	143.024	5.818	5.502	1.00	0.00
ATOM 221	O	GLU A	19	142.907	4.614	5.728	1.00	0.00
ATOM 222	CB	GLU A	19	141.298	7.627	5.429	1.00	0.00
ATOM 223	CG	GLU A	19	140.306	7.067	6.435	1.00	0.00
ATOM 224	CD	GLU A	19	139.750	8.132	7.360	1.00	0.00
ATOM 225	OE1	GLU A	19	139.254	9.159	6.851	1.00	0.00
ATOM 226	OE2	GLU A	19	139.812	7.939	8.592	1.00	0.00
ATOM 227	H	GLU A	19	140.667	4.922	4.612	1.00	0.00
ATOM 228	HA	GLU A	19	142.551	7.020	3.803	1.00	0.00
ATOM 229	1HB	GLU A	19	142.032	8.210	5.965	1.00	0.00
ATOM 230	2HB	GLU A	19	140.762	8.274	4.750	1.00	0.00
ATOM 231	1HG	GLU A	19	139.485	6.614	5.900	1.00	0.00

ATOM 232	2HG	GLU A	19	140.803	6.316	7.032	1.00	0.00
ATOM 233	N	VAL A	20	144.012	6.554	6.001	1.00	0.00
ATOM 234	CA	VAL A	20	145.037	5.976	6.861	1.00	0.00
ATOM 235	C	VAL A	20	144.422	5.372	8.118	1.00	0.00
ATOM 236	O	VAL A	20	143.522	5.956	8.724	1.00	0.00
ATOM 237	CB	VAL A	20	146.085	7.028	7.270	1.00	0.00
ATOM 238	CG1	VAL A	20	147.242	6.371	8.007	1.00	0.00
ATOM 239	CG2	VAL A	20	146.583	7.788	6.051	1.00	0.00
ATOM 240	H	VAL A	20	144.052	7.509	5.785	1.00	0.00
ATOM 241	HA	VAL A	20	145.537	5.196	6.306	1.00	0.00
ATOM 242	HB	VAL A	20	145.616	7.733	7.941	1.00	0.00
ATOM 243	1HG1	VAL A	20	146.951	6.169	9.027	1.00	0.00
ATOM 244	2HG1	VAL A	20	148.095	7.033	8.000	1.00	0.00
ATOM 245	3HG1	VAL A	20	147.502	5.444	7.516	1.00	0.00
ATOM 246	1HG2	VAL A	20	147.614	8.072	6.200	1.00	0.00
ATOM 247	2HG2	VAL A	20	145.983	8.674	5.910	1.00	0.00
ATOM 248	3HG2	VAL A	20	146.506	7.157	5.177	1.00	0.00
ATOM 249	N	GLY A	21	144.912	4.199	8.507	1.00	0.00
ATOM 250	CA	GLY A	21	144.398	3.536	9.691	1.00	0.00
ATOM 251	C	GLY A	21	143.343	2.498	9.363	1.00	0.00
ATOM 252	O	GLY A	21	143.183	1.516	10.089	1.00	0.00
ATOM 253	H	GLY A	21	145.628	3.781	7.985	1.00	0.00
ATOM 254	1HA	GLY A	21	145.216	3.053	10.204	1.00	0.00
ATOM 255	2HA	GLY A	21	143.965	4.278	10.346	1.00	0.00
ATOM 256	N	SER A	22	142.624	2.712	8.267	1.00	0.00
ATOM 257	CA	SER A	22	141.580	1.786	7.844	1.00	0.00
ATOM 258	C	SER A	22	142.140	0.728	6.899	1.00	0.00
ATOM 259	O	SER A	22	143.122	0.967	6.197	1.00	0.00
ATOM 260	CB	SER A	22	140.442	2.546	7.160	1.00	0.00

ATOM 261	OG	SER A	22	139.581	3.144	8.115	1.00	0.00
ATOM 262	H	SER A	22	142.800	3.512	7.728	1.00	0.00
ATOM 263	HA	SER A	22	141.194	1.297	8.725	1.00	0.00
ATOM 264	1HB	SER A	22	140.855	3.322	6.533	1.00	0.00
ATOM 265	2HB	SER A	22	139.867	1.861	6.554	1.00	0.00
ATOM 266	HG	SER A	22	138.759	3.401	7.688	1.00	0.00
ATOM 267	N	LEU A	23	141.508	-0.441	6.887	1.00	0.00
ATOM 268	CA	LEU A	23	141.944	-1.537	6.028	1.00	0.00
ATOM 269	C	LEU A	23	141.337	-1.410	4.634	1.00	0.00
ATOM 270	O	LEU A	23	140.240	-0.875	4.471	1.00	0.00
ATOM 271	CB	LEU A	23	141.557	-2.882	6.645	1.00	0.00
ATOM 272	CG	LEU A	23	142.098	-3.128	8.055	1.00	0.00
ATOM 273	CD1	LEU A	23	141.202	-4.096	8.810	1.00	0.00
ATOM 274	CD2	LEU A	23	143.524	-3.655	7.992	1.00	0.00
ATOM 275	H	LEU A	23	140.732	-0.571	7.470	1.00	0.00
ATOM 276	HA	LEU A	23	143.019	-1.485	5.944	1.00	0.00
ATOM 277	1HB	LEU A	23	140.478	-2.940	6.680	1.00	0.00
ATOM 278	2HB	LEU A	23	141.921	-3.668	6.001	1.00	0.00
ATOM 279	HG	LEU A	23	142.111	-2.193	8.597	1.00	0.00
ATOM 280	1HD1	LEU A	23	141.188	-3.833	9.857	1.00	0.00
ATOM 281	2HD1	LEU A	23	141.582	-5.102	8.696	1.00	0.00
ATOM 282	3HD1	LEU A	23	140.200	-4.045	8.411	1.00	0.00
ATOM 283	1HD2	LEU A	23	143.988	-3.331	7.072	1.00	0.00
ATOM 284	2HD2	LEU A	23	143.510	-4.735	8.027	1.00	0.00
ATOM 285	3HD2	LEU A	23	144.086	-3.275	8.832	1.00	0.00
ATOM 286	N	ALA A	24	142.058	-1.903	3.633	1.00	0.00
ATOM 287	CA	ALA A	24	141.590	-1.844	2.253	1.00	0.00
ATOM 288	C	ALA A	24	142.214	-2.954	1.413	1.00	0.00
ATOM 289	O	ALA A	24	143.288	-3.460	1.736	1.00	0.00

ATOM 290	CB	ALA A	24	141.899	-0.484	1.649	1.00	0.00
ATOM 291	H	ALA A	24	142.925	-2.317	3.826	1.00	0.00
ATOM 292	HA	ALA A	24	140.516	-1.972	2.260	1.00	0.00
ATOM 293	1HB	ALA A	24	141.554	-0.456	0.626	1.00	0.00
ATOM 294	2HB	ALA A	24	142.967	-0.314	1.672	1.00	0.00
ATOM 295	3HB	ALA A	24	141.400	0.286	2.218	1.00	0.00
ATOM 296	N	GLU A	25	141.533	-3.324	0.334	1.00	0.00
ATOM 297	CA	GLU A	25	142.020	-4.373	-0.555	1.00	0.00
ATOM 298	C	GLU A	25	142.225	-3.836	-1.968	1.00	0.00
ATOM 299	O	GLU A	25	141.550	-2.897	-2.389	1.00	0.00
ATOM 300	CB	GLU A	25	141.038	-5.547	-0.579	1.00	0.00
ATOM 301	CG	GLU A	25	141.646	-6.840	-1.098	1.00	0.00
ATOM 302	CD	GLU A	25	140.882	-7.413	-2.275	1.00	0.00
ATOM 303	OE1	GLU A	25	140.595	-6.654	-3.225	1.00	0.00
ATOM 304	OE2	GLU A	25	140.571	-8.623	-2.249	1.00	0.00
ATOM 305	H	GLU A	25	140.683	-2.883	0.129	1.00	0.00
ATOM 306	HA	GLU A	25	142.970	-4.718	-0.173	1.00	0.00
ATOM 307	1HB	GLU A	25	140.679	-5.720	0.424	1.00	0.00
ATOM 308	2HB	GLU A	25	140.202	-5.287	-1.211	1.00	0.00
ATOM 309	1HG	GLU A	25	142.662	-6.645	-1.410	1.00	0.00
ATOM 310	2HG	GLU A	25	141.648	-7.567	-0.300	1.00	0.00
ATOM 311	N	VAL A	26	143.161	-4.437	-2.696	1.00	0.00
ATOM 312	CA	VAL A	26	143.455	-4.018	-4.061	1.00	0.00
ATOM 313	C	VAL A	26	143.055	-5.093	-5.066	1.00	0.00
ATOM 314	O	VAL A	26	142.914	-6.264	-4.713	1.00	0.00
ATOM 315	CB	VAL A	26	144.950	-3.695	-4.240	1.00	0.00
ATOM 316	CG1	VAL A	26	145.204	-3.060	-5.599	1.00	0.00
ATOM 317	CG2	VAL A	26	145.438	-2.787	-3.121	1.00	0.00
ATOM 318	H	VAL A	26	143.667	-5.181	-2.305	1.00	0.00

ATOM 319	HA	VAL A	26	142.887	-3.120	-4.264	1.00	0.00
ATOM 320	HB	VAL A	26	145.505	-4.620	-4.190	1.00	0.00
ATOM 321	1HG1	VAL A	26	145.324	-3.836	-6.341	1.00	0.00
ATOM 322	2HG1	VAL A	26	146.100	-2.461	-5.555	1.00	0.00
ATOM 323	3HG1	VAL A	26	144.365	-2.435	-5.865	1.00	0.00
ATOM 324	1HG2	VAL A	26	145.069	-1.785	-3.283	1.00	0.00
ATOM 325	2HG2	VAL A	26	146.518	-2.776	-3.111	1.00	0.00
ATOM 326	3HG2	VAL A	26	145.073	-3.155	-2.173	1.00	0.00
ATOM 327	N	LYS A	27	142.875	-4.688	-6.319	1.00	0.00
ATOM 328	CA	LYS A	27	142.493	-5.618	-7.375	1.00	0.00
ATOM 329	C	LYS A	27	143.724	-6.147	-8.106	1.00	0.00
ATOM 330	O	LYS A	27	143.759	-6.193	-9.335	1.00	0.00
ATOM 331	CB	LYS A	27	141.548	-4.934	-8.368	1.00	0.00
ATOM 332	CG	LYS A	27	140.844	-5.904	-9.303	1.00	0.00
ATOM 333	CD	LYS A	27	139.434	-6.212	-8.828	1.00	0.00
ATOM 334	CE	LYS A	27	138.434	-5.194	-9.354	1.00	0.00
ATOM 335	NZ	LYS A	27	138.010	-5.500	-10.748	1.00	0.00
ATOM 336	H	LYS A	27	143.003	-3.741	-6.539	1.00	0.00
ATOM 337	HA	LYS A	27	141.977	-6.448	-6.915	1.00	0.00
ATOM 338	1HB	LYS A	27	140.797	-4.390	-7.816	1.00	0.00
ATOM 339	2HB	LYS A	27	142.118	-4.238	-8.967	1.00	0.00
ATOM 340	1HG	LYS A	27	140.793	-5.464	-10.289	1.00	0.00
ATOM 341	2HG	LYS A	27	141.410	-6.822	-9.345	1.00	0.00
ATOM 342	1HD	LYS A	27	139.151	-7.193	-9.179	1.00	0.00
ATOM 343	2HD	LYS A	27	139.416	-6.196	-7.748	1.00	0.00
ATOM 344	1HE	LYS A	27	137.564	-5.199	-8.714	1.00	0.00
ATOM 345	2HE	LYS A	27	138.890	-4.215	-9.331	1.00	0.00
ATOM 346	1HZ	LYS A	27	137.487	-6.399	-10.772	1.00	0.00
ATOM 347	2HZ	LYS A	27	138.842	-5.579	-11.365	1.00	0.00

ATOM 348	3HZ	LYS A	27	137.395	-4.743	-11.108	1.00	0.00
ATOM 349	N	GLU A	28	144.732	-6.549	-7.338	1.00	0.00
ATOM 350	CA	GLU A	28	145.966	-7.077	-7.909	1.00	0.00
ATOM 351	C	GLU A	28	145.851	-8.577	-8.152	1.00	0.00
ATOM 352	O	GLU A	28	144.929	-9.227	-7.660	1.00	0.00
ATOM 353	CB	GLU A	28	147.146	-6.785	-6.980	1.00	0.00
ATOM 354	CG	GLU A	28	148.392	-6.309	-7.709	1.00	0.00
ATOM 355	CD	GLU A	28	148.913	-4.989	-7.176	1.00	0.00
ATOM 356	OE1	GLU A	28	148.619	-3.941	-7.790	1.00	0.00
ATOM 357	OE2	GLU A	28	149.615	-5.001	-6.142	1.00	0.00
ATOM 358	H	GLU A	28	144.645	-6.489	-6.364	1.00	0.00
ATOM 359	HA	GLU A	28	146.133	-6.581	-8.854	1.00	0.00
ATOM 360	1HB	GLU A	28	146.852	-6.021	-6.274	1.00	0.00
ATOM 361	2HB	GLU A	28	147.393	-7.685	-6.438	1.00	0.00
ATOM 362	1HG	GLU A	28	149.165	-7.054	-7.599	1.00	0.00
ATOM 363	2HG	GLU A	28	148.156	-6.188	-8.757	1.00	0.00
ATOM 364	N	ASN A	29	146.795	-9.126	-8.913	1.00	0.00
ATOM 365	CA	ASN A	29	146.794	-10.553	-9.214	1.00	0.00
ATOM 366	C	ASN A	29	146.979	-11.378	-7.941	1.00	0.00
ATOM 367	O	ASN A	29	146.210	-12.304	-7.681	1.00	0.00
ATOM 368	CB	ASN A	29	147.889	-10.896	-10.230	1.00	0.00
ATOM 369	CG	ASN A	29	148.012	-9.859	-11.329	1.00	0.00
ATOM 370	OD1	ASN A	29	147.215	-9.835	-12.268	1.00	0.00
ATOM 371	ND2	ASN A	29	149.014	-8.995	-11.218	1.00	0.00
ATOM 372	H	ASN A	29	147.507	-8.559	-9.277	1.00	0.00
ATOM 373	HA	ASN A	29	145.832	-10.795	-9.643	1.00	0.00
ATOM 374	1HB	ASN A	29	148.837	-10.967	-9.720	1.00	0.00
ATOM 375	2HB	ASN A	29	147.660	-11.849	-10.684	1.00	0.00
ATOM 376	1HD2	ASN A	29	149.610	-9.074	-10.444	1.00	0.00

ATOM 377	2HD2	ASN	A	29	149.117	-8.314	-11.915	1.00	0.00
ATOM 378	N	PRO	A	30	147.999	-11.054	-7.121	1.00	0.00
ATOM 379	CA	PRO	A	30	148.264	-11.772	-5.876	1.00	0.00
ATOM 380	C	PRO	A	30	147.376	-11.290	-4.730	1.00	0.00
ATOM 381	O	PRO	A	30	147.517	-10.160	-4.262	1.00	0.00
ATOM 382	CB	PRO	A	30	149.724	-11.428	-5.596	1.00	0.00
ATOM 383	CG	PRO	A	30	149.894	-10.057	-6.150	1.00	0.00
ATOM 384	CD	PRO	A	30	148.972	-9.962	-7.340	1.00	0.00
ATOM 385	HA	PRO	A	30	148.157	-12.839	-5.999	1.00	0.00
ATOM 386	1HB	PRO	A	30	149.906	-11.452	-4.531	1.00	0.00
ATOM 387	2HB	PRO	A	30	150.368	-12.138	-6.094	1.00	0.00
ATOM 388	1HG	PRO	A	30	149.620	-9.324	-5.406	1.00	0.00
ATOM 389	2HG	PRO	A	30	150.919	-9.911	-6.460	1.00	0.00
ATOM 390	1HD	PRO	A	30	148.477	-9.002	-7.355	1.00	0.00
ATOM 391	2HD	PRO	A	30	149.523	-10.113	-8.254	1.00	0.00
ATOM 392	N	PRO	A	31	146.441	-12.138	-4.263	1.00	0.00
ATOM 393	CA	PRO	A	31	145.531	-11.780	-3.169	1.00	0.00
ATOM 394	C	PRO	A	31	146.277	-11.450	-1.880	1.00	0.00
ATOM 395	O	PRO	A	31	146.937	-12.308	-1.296	1.00	0.00
ATOM 396	CB	PRO	A	31	144.671	-13.035	-2.980	1.00	0.00
ATOM 397	CG	PRO	A	31	144.811	-13.798	-4.253	1.00	0.00
ATOM 398	CD	PRO	A	31	146.194	-13.502	-4.758	1.00	0.00
ATOM 399	HA	PRO	A	31	144.900	-10.945	-3.439	1.00	0.00
ATOM 400	1HB	PRO	A	31	145.039	-13.603	-2.137	1.00	0.00
ATOM 401	2HB	PRO	A	31	143.645	-12.748	-2.805	1.00	0.00
ATOM 402	1HG	PRO	A	31	144.699	-14.855	-4.062	1.00	0.00
ATOM 403	2HG	PRO	A	31	144.072	-13.463	-4.965	1.00	0.00
ATOM 404	1HD	PRO	A	31	146.906	-14.199	-4.342	1.00	0.00
ATOM 405	2HD	PRO	A	31	146.218	-13.531	-5.836	1.00	0.00

ATOM 406	N	PHE A	32	146.164	-10.200	-1.441	1.00	0.00
ATOM 407	CA	PHE A	32	146.827	-9.757	-0.220	1.00	0.00
ATOM 408	C	PHE A	32	145.940	-8.790	0.557	1.00	0.00
ATOM 409	O	PHE A	32	145.040	-8.167	-0.007	1.00	0.00
ATOM 410	CB	PHE A	32	148.163	-9.089	-0.551	1.00	0.00
ATOM 411	CG	PHE A	32	148.042	-7.950	-1.523	1.00	0.00
ATOM 412	CD1	PHE A	32	148.547	-8.063	-2.809	1.00	0.00
ATOM 413	CD2	PHE A	32	147.426	-6.766	-1.152	1.00	0.00
ATOM 414	CE1	PHE A	32	148.439	-7.017	-3.705	1.00	0.00
ATOM 415	CE2	PHE A	32	147.315	-5.716	-2.044	1.00	0.00
ATOM 416	CZ	PHE A	32	147.821	-5.842	-3.322	1.00	0.00
ATOM 417	H	PHE A	32	145.623	-9.562	-1.950	1.00	0.00
ATOM 418	HA	PHE A	32	147.011	-10.627	0.392	1.00	0.00
ATOM 419	1HB	PHE A	32	148.600	-8.704	0.358	1.00	0.00
ATOM 420	2HB	PHE A	32	148.828	-9.824	-0.980	1.00	0.00
ATOM 421	HD1	PHE A	32	149.029	-8.982	-3.110	1.00	0.00
ATOM 422	HD2	PHE A	32	147.030	-6.665	-0.152	1.00	0.00
ATOM 423	HE1	PHE A	32	148.836	-7.118	-4.705	1.00	0.00
ATOM 424	HE2	PHE A	32	146.832	-4.799	-1.741	1.00	0.00
ATOM 425	HZ	PHE A	32	147.736	-5.023	-4.021	1.00	0.00
ATOM 426	N	TYR A	33	146.199	-8.668	1.855	1.00	0.00
ATOM 427	CA	TYR A	33	145.424	-7.777	2.709	1.00	0.00
ATOM 428	C	TYR A	33	146.339	-6.867	3.521	1.00	0.00
ATOM 429	O	TYR A	33	147.200	-7.339	4.265	1.00	0.00
ATOM 430	CB	TYR A	33	144.528	-8.588	3.648	1.00	0.00
ATOM 431	CG	TYR A	33	143.314	-9.178	2.966	1.00	0.00
ATOM 432	CD1	TYR A	33	143.134	-10.554	2.895	1.00	0.00
ATOM 433	CD2	TYR A	33	142.348	-8.360	2.394	1.00	0.00
ATOM 434	CE1	TYR A	33	142.027	-11.098	2.272	1.00	0.00

ATOM 435	CE2	TYR A	33	141.237	-8.896	1.771	1.00	0.00
ATOM 436	CZ	TYR A	33	141.081	-10.264	1.712	1.00	0.00
ATOM 437	OH	TYR A	33	139.977	-10.802	1.092	1.00	0.00
ATOM 438	H	TYR A	33	146.930	-9.191	2.248	1.00	0.00
ATOM 439	HA	TYR A	33	144.802	-7.166	2.073	1.00	0.00
ATOM 440	1HB	TYR A	33	145.101	-9.402	4.067	1.00	0.00
ATOM 441	2HB	TYR A	33	144.182	-7.948	4.446	1.00	0.00
ATOM 442	HD1	TYR A	33	143.877	-11.204	3.334	1.00	0.00
ATOM 443	HD2	TYR A	33	142.473	-7.288	2.441	1.00	0.00
ATOM 444	HE1	TYR A	33	141.904	-12.169	2.228	1.00	0.00
ATOM 445	HE2	TYR A	33	140.497	-8.243	1.333	1.00	0.00
ATOM 446	HH	TYR A	33	139.667	-11.561	1.592	1.00	0.00
ATOM 447	N	GLY A	34	146.148	-5.560	3.375	1.00	0.00
ATOM 448	CA	GLY A	34	146.963	-4.604	4.101	1.00	0.00
ATOM 449	C	GLY A	34	146.180	-3.374	4.517	1.00	0.00
ATOM 450	O	GLY A	34	145.129	-3.077	3.950	1.00	0.00
ATOM 451	H	GLY A	34	145.447	-5.242	2.768	1.00	0.00
ATOM 452	1HA	GLY A	34	147.358	-5.083	4.984	1.00	0.00
ATOM 453	2HA	GLY A	34	147.786	-4.298	3.471	1.00	0.00
ATOM 454	N	VAL A	35	146.694	-2.658	5.512	1.00	0.00
ATOM 455	CA	VAL A	35	146.036	-1.453	6.005	1.00	0.00
ATOM 456	C	VAL A	35	146.677	-0.199	5.420	1.00	0.00
ATOM 457	O	VAL A	35	147.885	-0.161	5.182	1.00	0.00
ATOM 458	CB	VAL A	35	146.084	-1.378	7.544	1.00	0.00
ATOM 459	CG1	VAL A	35	147.523	-1.325	8.035	1.00	0.00
ATOM 460	CG2	VAL A	35	145.296	-0.177	8.047	1.00	0.00
ATOM 461	H	VAL A	35	147.535	-2.946	5.924	1.00	0.00
ATOM 462	HA	VAL A	35	145.001	-1.492	5.699	1.00	0.00
ATOM 463	HB	VAL A	35	145.627	-2.272	7.942	1.00	0.00

ATOM 464	1HG1	VAL	A	35	147.534	-1.273	9.114	1.00	0.00
ATOM 465	2HG1	VAL	A	35	148.011	-0.451	7.628	1.00	0.00
ATOM 466	3HG1	VAL	A	35	148.047	-2.212	7.712	1.00	0.00
ATOM 467	1HG2	VAL	A	35	144.244	-0.331	7.857	1.00	0.00
ATOM 468	2HG2	VAL	A	35	145.629	0.712	7.532	1.00	0.00
ATOM 469	3HG2	VAL	A	35	145.457	-0.060	9.108	1.00	0.00
ATOM 470	N	ILE	A	36	145.862	0.825	5.193	1.00	0.00
ATOM 471	CA	ILE	A	36	146.350	2.082	4.638	1.00	0.00
ATOM 472	C	ILE	A	36	147.313	2.767	5.602	1.00	0.00
ATOM 473	O	ILE	A	36	147.068	2.821	6.807	1.00	0.00
ATOM 474	CB	ILE	A	36	145.190	3.044	4.313	1.00	0.00
ATOM 475	CG1	ILE	A	36	144.139	2.340	3.452	1.00	0.00
ATOM 476	CG2	ILE	A	36	145.713	4.288	3.611	1.00	0.00
ATOM 477	CD1	ILE	A	36	142.949	3.213	3.118	1.00	0.00
ATOM 478	H	ILE	A	36	144.910	0.734	5.405	1.00	0.00
ATOM 479	HA	ILE	A	36	146.874	1.859	3.719	1.00	0.00
ATOM 480	HB	ILE	A	36	144.736	3.350	5.244	1.00	0.00
ATOM 481	1HG1	ILE	A	36	144.594	2.031	2.523	1.00	0.00
ATOM 482	2HG1	ILE	A	36	143.776	1.469	3.977	1.00	0.00
ATOM 483	1HG2	ILE	A	36	146.653	4.061	3.129	1.00	0.00
ATOM 484	2HG2	ILE	A	36	145.860	5.076	4.334	1.00	0.00
ATOM 485	3HG2	ILE	A	36	144.997	4.611	2.868	1.00	0.00
ATOM 486	1HD1	ILE	A	36	142.382	2.758	2.319	1.00	0.00
ATOM 487	2HD1	ILE	A	36	143.294	4.187	2.803	1.00	0.00
ATOM 488	3HD1	ILE	A	36	142.323	3.317	3.990	1.00	0.00
ATOM 489	N	ARG	A	37	148.411	3.289	5.063	1.00	0.00
ATOM 490	CA	ARG	A	37	149.412	3.968	5.877	1.00	0.00
ATOM 491	C	ARG	A	37	149.575	5.422	5.441	1.00	0.00
ATOM 492	O	ARG	A	37	149.318	6.343	6.216	1.00	0.00

ATOM 493	CB	ARG A	37	150.755	3.242	5.782	1.00	0.00
ATOM 494	CG	ARG A	37	150.663	1.754	6.073	1.00	0.00
ATOM 495	CD	ARG A	37	150.046	1.488	7.437	1.00	0.00
ATOM 496	NE	ARG A	37	150.848	2.053	8.519	1.00	0.00
ATOM 497	CZ	ARG A	37	150.641	1.792	9.808	1.00	0.00
ATOM 498	NH1	ARG A	37	149.661	0.977	10.179	1.00	0.00
ATOM 499	NH2	ARG A	37	151.417	2.348	10.729	1.00	0.00
ATOM 500	H	ARG A	37	148.552	3.212	4.097	1.00	0.00
ATOM 501	HA	ARG A	37	149.075	3.949	6.902	1.00	0.00
ATOM 502	1HB	ARG A	37	151.150	3.369	4.784	1.00	0.00
ATOM 503	2HB	ARG A	37	151.440	3.684	6.490	1.00	0.00
ATOM 504	1HG	ARG A	37	150.052	1.285	5.316	1.00	0.00
ATOM 505	2HG	ARG A	37	151.656	1.329	6.049	1.00	0.00
ATOM 506	1HD	ARG A	37	149.061	1.930	7.463	1.00	0.00
ATOM 507	2HD	ARG A	37	149.965	0.421	7.580	1.00	0.00
ATOM 508	HE	ARG A	37	151.578	2.659	8.273	1.00	0.00
ATOM 509	1HH1	ARG A	37	149.073	0.554	9.490	1.00	0.00
ATOM 510	2HH1	ARG A	37	149.512	0.785	11.149	1.00	0.00
ATOM 511	1HH2	ARG A	37	152.157	2.962	10.456	1.00	0.00
ATOM 512	2HH2	ARG A	37	151.262	2.152	11.698	1.00	0.00
ATOM 513	N	TRP A	38	150.001	5.619	4.198	1.00	0.00
ATOM 514	CA	TRP A	38	150.198	6.962	3.664	1.00	0.00
ATOM 515	C	TRP A	38	149.459	7.137	2.339	1.00	0.00
ATOM 516	O	TRP A	38	149.536	6.285	1.455	1.00	0.00
ATOM 517	CB	TRP A	38	151.692	7.247	3.473	1.00	0.00
ATOM 518	CG	TRP A	38	151.968	8.508	2.707	1.00	0.00
ATOM 519	CD1	TRP A	38	152.160	9.758	3.223	1.00	0.00
ATOM 520	CD2	TRP A	38	152.077	8.639	1.285	1.00	0.00
ATOM 521	NE1	TRP A	38	152.382	10.658	2.208	1.00	0.00

ATOM 522	CE2	TRP A	38	152.337	9.996	1.009	1.00	0.00
ATOM 523	CE3	TRP A	38	151.983	7.742	0.218	1.00	0.00
ATOM 524	CZ2	TRP A	38	152.501	10.473	-0.289	1.00	0.00
ATOM 525	CZ3	TRP A	38	152.148	8.217	-1.070	1.00	0.00
ATOM 526	CH2	TRP A	38	152.403	9.572	-1.315	1.00	0.00
ATOM 527	H	TRP A	38	150.190	4.845	3.628	1.00	0.00
ATOM 528	HA	TRP A	38	149.797	7.665	4.379	1.00	0.00
ATOM 529	1HB	TRP A	38	152.160	7.337	4.441	1.00	0.00
ATOM 530	2HB	TRP A	38	152.142	6.424	2.936	1.00	0.00
ATOM 531	HD1	TRP A	38	152.136	9.991	4.277	1.00	0.00
ATOM 532	HE1	TRP A	38	152.546	11.617	2.324	1.00	0.00
ATOM 533	HE3	TRP A	38	151.785	6.695	0.385	1.00	0.00
ATOM 534	HZ2	TRP A	38	152.696	11.515	-0.494	1.00	0.00
ATOM 535	HZ3	TRP A	38	152.076	7.538	-1.906	1.00	0.00
ATOM 536	HH2	TRP A	38	152.525	9.899	-2.337	1.00	0.00
ATOM 537	N	ILE A	39	148.753	8.255	2.210	1.00	0.00
ATOM 538	CA	ILE A	39	148.007	8.556	0.995	1.00	0.00
ATOM 539	C	ILE A	39	148.396	9.927	0.453	1.00	0.00
ATOM 540	O	ILE A	39	148.014	10.955	1.011	1.00	0.00
ATOM 541	CB	ILE A	39	146.487	8.525	1.243	1.00	0.00
ATOM 542	CG1	ILE A	39	146.096	7.246	1.986	1.00	0.00
ATOM 543	CG2	ILE A	39	145.733	8.631	-0.074	1.00	0.00
ATOM 544	CD1	ILE A	39	144.679	7.267	2.520	1.00	0.00
ATOM 545	H	ILE A	39	148.738	8.898	2.950	1.00	0.00
ATOM 546	HA	ILE A	39	148.249	7.804	0.258	1.00	0.00
ATOM 547	HB	ILE A	39	146.225	9.378	1.849	1.00	0.00
ATOM 548	1HG1	ILE A	39	146.184	6.405	1.314	1.00	0.00
ATOM 549	2HG1	ILE A	39	146.764	7.105	2.823	1.00	0.00
ATOM 550	1HG2	ILE A	39	144.792	8.107	0.007	1.00	0.00

ATOM 551	2HG2	ILE A	39	146.324	8.190	-0.864	1.00	0.00
ATOM 552	3HG2	ILE A	39	145.549	9.671	-0.300	1.00	0.00
ATOM 553	1HD1	ILE A	39	144.027	6.753	1.829	1.00	0.00
ATOM 554	2HD1	ILE A	39	144.352	8.290	2.632	1.00	0.00
ATOM 555	3HD1	ILE A	39	144.649	6.772	3.479	1.00	0.00
ATOM 556	N	GLY A	40	149.164	9.936	-0.631	1.00	0.00
ATOM 557	CA	GLY A	40	149.595	11.190	-1.219	1.00	0.00
ATOM 558	C	GLY A	40	150.136	11.024	-2.625	1.00	0.00
ATOM 559	O	GLY A	40	149.994	9.963	-3.233	1.00	0.00
ATOM 560	H	GLY A	40	149.442	9.086	-1.033	1.00	0.00
ATOM 561	1HA	GLY A	40	148.757	11.869	-1.246	1.00	0.00
ATOM 562	2HA	GLY A	40	150.366	11.617	-0.597	1.00	0.00
ATOM 563	N	GLN A	41	150.756	12.080	-3.140	1.00	0.00
ATOM 564	CA	GLN A	41	151.322	12.057	-4.482	1.00	0.00
ATOM 565	C	GLN A	41	152.790	12.482	-4.457	1.00	0.00
ATOM 566	O	GLN A	41	153.104	13.628	-4.136	1.00	0.00
ATOM 567	CB	GLN A	41	150.525	12.986	-5.399	1.00	0.00
ATOM 568	CG	GLN A	41	149.022	12.773	-5.320	1.00	0.00
ATOM 569	CD	GLN A	41	148.247	14.074	-5.380	1.00	0.00
ATOM 570	OE1	GLN A	41	148.194	14.824	-4.405	1.00	0.00
ATOM 571	NE2	GLN A	41	147.642	14.349	-6.529	1.00	0.00
ATOM 572	H	GLN A	41	150.834	12.896	-2.605	1.00	0.00
ATOM 573	HA	GLN A	41	151.253	11.048	-4.858	1.00	0.00
ATOM 574	1HB	GLN A	41	150.738	14.008	-5.127	1.00	0.00
ATOM 575	2HB	GLN A	41	150.838	12.821	-6.419	1.00	0.00
ATOM 576	1HG	GLN A	41	148.714	12.152	-6.147	1.00	0.00
ATOM 577	2HG	GLN A	41	148.790	12.275	-4.390	1.00	0.00
ATOM 578	1HE2	GLN A	41	147.727	13.706	-7.262	1.00	0.00
ATOM 579	2HE2	GLN A	41	147.135	15.185	-6.596	1.00	0.00

ATOM 580	N	PRO A	42	153.713	11.563	-4.793	1.00	0.00
ATOM 581	CA	PRO A	42	155.152	11.857	-4.801	1.00	0.00
ATOM 582	C	PRO A	42	155.499	13.021	-5.723	1.00	0.00
ATOM 583	O	PRO A	42	154.732	13.362	-6.624	1.00	0.00
ATOM 584	CB	PRO A	42	155.784	10.560	-5.316	1.00	0.00
ATOM 585	CG	PRO A	42	154.773	9.505	-5.034	1.00	0.00
ATOM 586	CD	PRO A	42	153.437	10.171	-5.187	1.00	0.00
ATOM 587	HA	PRO A	42	155.516	12.068	-3.806	1.00	0.00
ATOM 588	1HB	PRO A	42	155.979	10.649	-6.375	1.00	0.00
ATOM 589	2HB	PRO A	42	156.708	10.372	-4.789	1.00	0.00
ATOM 590	1HG	PRO A	42	154.873	8.697	-5.744	1.00	0.00
ATOM 591	2HG	PRO A	42	154.895	9.138	-4.025	1.00	0.00
ATOM 592	1HD	PRO A	42	153.104	10.119	-6.214	1.00	0.00
ATOM 593	2HD	PRO A	42	152.710	9.720	-4.527	1.00	0.00
ATOM 594	N	PRO A	43	156.668	13.649	-5.510	1.00	0.00
ATOM 595	CA	PRO A	43	157.117	14.780	-6.327	1.00	0.00
ATOM 596	C	PRO A	43	157.535	14.350	-7.728	1.00	0.00
ATOM 597	O	PRO A	43	158.705	14.060	-7.976	1.00	0.00
ATOM 598	CB	PRO A	43	158.320	15.319	-5.555	1.00	0.00
ATOM 599	CG	PRO A	43	158.841	14.148	-4.797	1.00	0.00
ATOM 600	CD	PRO A	43	157.643	13.304	-4.457	1.00	0.00
ATOM 601	HA	PRO A	43	156.356	15.543	-6.397	1.00	0.00
ATOM 602	1HB	PRO A	43	159.054	15.699	-6.251	1.00	0.00
ATOM 603	2HB	PRO A	43	158.002	16.109	-4.892	1.00	0.00
ATOM 604	1HG	PRO A	43	159.531	13.589	-5.413	1.00	0.00
ATOM 605	2HG	PRO A	43	159.330	14.483	-3.894	1.00	0.00
ATOM 606	1HD	PRO A	43	157.897	12.255	-4.497	1.00	0.00
ATOM 607	2HD	PRO A	43	157.262	13.565	-3.481	1.00	0.00
ATOM 608	N	GLY A	44	156.571	14.311	-8.641	1.00	0.00

ATOM 609	CA	GLY A	44	156.860	13.916	-10.006	1.00	0.00
ATOM 610	C	GLY A	44	155.636	13.399	-10.732	1.00	0.00
ATOM 611	O	GLY A	44	155.325	13.848	-11.835	1.00	0.00
ATOM 612	H	GLY A	44	155.656	14.552	-8.386	1.00	0.00
ATOM 613	1HA	GLY A	44	157.249	14.768	-10.541	1.00	0.00
ATOM 614	2HA	GLY A	44	157.611	13.139	-9.992	1.00	0.00
ATOM 615	N	LEU A	45	154.938	12.453	-10.114	1.00	0.00
ATOM 616	CA	LEU A	45	153.739	11.876	-10.710	1.00	0.00
ATOM 617	C	LEU A	45	152.532	12.079	-9.803	1.00	0.00
ATOM 618	O	LEU A	45	152.455	11.497	-8.721	1.00	0.00
ATOM 619	CB	LEU A	45	153.945	10.384	-10.980	1.00	0.00
ATOM 620	CG	LEU A	45	154.507	9.584	-9.802	1.00	0.00
ATOM 621	CD1	LEU A	45	154.156	8.109	-9.940	1.00	0.00
ATOM 622	CD2	LEU A	45	156.015	9.772	-9.700	1.00	0.00
ATOM 623	H	LEU A	45	155.235	12.136	-9.233	1.00	0.00
ATOM 624	HA	LEU A	45	153.560	12.381	-11.648	1.00	0.00
ATOM 625	1HB	LEU A	45	152.993	9.956	-11.260	1.00	0.00
ATOM 626	2HB	LEU A	45	154.626	10.281	-11.812	1.00	0.00
ATOM 627	HG	LEU A	45	154.061	9.948	-8.886	1.00	0.00
ATOM 628	1HD1	LEU A	45	153.472	7.828	-9.154	1.00	0.00
ATOM 629	2HD1	LEU A	45	155.055	7.515	-9.864	1.00	0.00
ATOM 630	3HD1	LEU A	45	153.691	7.936	-10.900	1.00	0.00
ATOM 631	1HD2	LEU A	45	156.323	10.583	-10.343	1.00	0.00
ATOM 632	2HD2	LEU A	45	156.513	8.863	-10.005	1.00	0.00
ATOM 633	3HD2	LEU A	45	156.280	10.002	-8.679	1.00	0.00
ATOM 634	N	ASN A	46	151.592	12.907	-10.245	1.00	0.00
ATOM 635	CA	ASN A	46	150.393	13.174	-9.461	1.00	0.00
ATOM 636	C	ASN A	46	149.458	11.971	-9.487	1.00	0.00
ATOM 637	O	ASN A	46	148.826	11.684	-10.504	1.00	0.00

ATOM 638	CB	ASN A	46	149.672	14.410	-10.001	1.00	0.00
ATOM 639	CG	ASN A	46	148.921	15.162	-8.920	1.00	0.00
ATOM 640	OD1	ASN A	46	147.695	15.271	-8.962	1.00	0.00
ATOM 641	ND2	ASN A	46	149.655	15.686	-7.946	1.00	0.00
ATOM 642	H	ASN A	46	151.705	13.344	-11.114	1.00	0.00
ATOM 643	HA	ASN A	46	150.696	13.360	-8.440	1.00	0.00
ATOM 644	1HB	ASN A	46	150.398	15.079	-10.441	1.00	0.00
ATOM 645	2HB	ASN A	46	148.966	14.104	-10.759	1.00	0.00
ATOM 646	1HD2	ASN A	46	150.626	15.560	-7.978	1.00	0.00
ATOM 647	2HD2	ASN A	46	149.195	16.177	-7.233	1.00	0.00
ATOM 648	N	GLU A	47	149.375	11.273	-8.360	1.00	0.00
ATOM 649	CA	GLU A	47	148.517	10.100	-8.245	1.00	0.00
ATOM 650	C	GLU A	47	148.358	9.687	-6.788	1.00	0.00
ATOM 651	O	GLU A	47	149.340	9.386	-6.109	1.00	0.00
ATOM 652	CB	GLU A	47	149.090	8.936	-9.059	1.00	0.00
ATOM 653	CG	GLU A	47	150.606	8.836	-9.007	1.00	0.00
ATOM 654	CD	GLU A	47	151.170	7.964	-10.111	1.00	0.00
ATOM 655	OE1	GLU A	47	151.265	8.447	-11.259	1.00	0.00
ATOM 656	OE2	GLU A	47	151.518	6.798	-9.829	1.00	0.00
ATOM 657	H	GLU A	47	149.904	11.554	-7.586	1.00	0.00
ATOM 658	HA	GLU A	47	147.546	10.361	-8.641	1.00	0.00
ATOM 659	1HB	GLU A	47	148.677	8.012	-8.681	1.00	0.00
ATOM 660	2HB	GLU A	47	148.794	9.054	-10.092	1.00	0.00
ATOM 661	1HG	GLU A	47	151.022	9.826	-9.104	1.00	0.00
ATOM 662	2HG	GLU A	47	150.895	8.417	-8.054	1.00	0.00
ATOM 663	N	VAL A	48	147.119	9.669	-6.309	1.00	0.00
ATOM 664	CA	VAL A	48	146.847	9.284	-4.931	1.00	0.00
ATOM 665	C	VAL A	48	147.245	7.832	-4.688	1.00	0.00
ATOM 666	O	VAL A	48	146.514	6.909	-5.044	1.00	0.00

ATOM 667	CB	VAL A	48	145.358	9.463	-4.578	1.00	0.00
ATOM 668	CG1	VAL A	48	145.132	9.251	-3.089	1.00	0.00
ATOM 669	CG2	VAL A	48	144.870	10.838	-5.008	1.00	0.00
ATOM 670	H	VAL A	48	146.374	9.913	-6.896	1.00	0.00
ATOM 671	HA	VAL A	48	147.431	9.921	-4.283	1.00	0.00
ATOM 672	HB	VAL A	48	144.790	8.718	-5.116	1.00	0.00
ATOM 673	1HG1	VAL A	48	145.196	8.197	-2.862	1.00	0.00
ATOM 674	2HG1	VAL A	48	144.155	9.619	-2.817	1.00	0.00
ATOM 675	3HG1	VAL A	48	145.887	9.785	-2.531	1.00	0.00
ATOM 676	1HG2	VAL A	48	145.583	11.587	-4.697	1.00	0.00
ATOM 677	2HG2	VAL A	48	143.913	11.039	-4.551	1.00	0.00
ATOM 678	3HG2	VAL A	48	144.768	10.863	-6.084	1.00	0.00
ATOM 679	N	LEU A	49	148.412	7.639	-4.082	1.00	0.00
ATOM 680	CA	LEU A	49	148.909	6.298	-3.795	1.00	0.00
ATOM 681	C	LEU A	49	148.806	5.992	-2.307	1.00	0.00
ATOM 682	O	LEU A	49	149.482	6.612	-1.487	1.00	0.00
ATOM 683	CB	LEU A	49	150.361	6.161	-4.258	1.00	0.00
ATOM 684	CG	LEU A	49	150.589	6.388	-5.753	1.00	0.00
ATOM 685	CD1	LEU A	49	152.051	6.701	-6.028	1.00	0.00
ATOM 686	CD2	LEU A	49	150.143	5.171	-6.550	1.00	0.00
ATOM 687	H	LEU A	49	148.952	8.414	-3.822	1.00	0.00
ATOM 688	HA	LEU A	49	148.297	5.595	-4.340	1.00	0.00
ATOM 689	1HB	LEU A	49	150.960	6.873	-3.710	1.00	0.00
ATOM 690	2HB	LEU A	49	150.701	5.165	-4.012	1.00	0.00
ATOM 691	HG	LEU A	49	150.000	7.234	-6.075	1.00	0.00
ATOM 692	1HD1	LEU A	49	152.506	7.107	-5.136	1.00	0.00
ATOM 693	2HD1	LEU A	49	152.121	7.424	-6.827	1.00	0.00
ATOM 694	3HD1	LEU A	49	152.566	5.796	-6.314	1.00	0.00
ATOM 695	1HD2	LEU A	49	150.286	4.281	-5.957	1.00	0.00

ATOM 696	2HD2	LEU A	49	150.729	5.100	-7.455	1.00	0.00
ATOM 697	3HD2	LEU A	49	149.098	5.270	-6.805	1.00	0.00
ATOM 698	N	ALA A	50	147.955	5.032	-1.965	1.00	0.00
ATOM 699	CA	ALA A	50	147.766	4.646	-0.575	1.00	0.00
ATOM 700	C	ALA A	50	148.688	3.492	-0.197	1.00	0.00
ATOM 701	O	ALA A	50	148.560	2.385	-0.721	1.00	0.00
ATOM 702	CB	ALA A	50	146.314	4.271	-0.323	1.00	0.00
ATOM 703	H	ALA A	50	147.443	4.573	-2.664	1.00	0.00
ATOM 704	HA	ALA A	50	148.005	5.502	0.040	1.00	0.00
ATOM 705	1HB	ALA A	50	145.677	4.830	-0.991	1.00	0.00
ATOM 706	2HB	ALA A	50	146.055	4.501	0.700	1.00	0.00
ATOM 707	3HB	ALA A	50	146.180	3.214	-0.499	1.00	0.00
ATOM 708	N	GLY A	51	149.617	3.758	0.715	1.00	0.00
ATOM 709	CA	GLY A	51	150.547	2.730	1.147	1.00	0.00
ATOM 710	C	GLY A	51	149.894	1.695	2.041	1.00	0.00
ATOM 711	O	GLY A	51	149.642	1.952	3.217	1.00	0.00
ATOM 712	H	GLY A	51	149.673	4.658	1.099	1.00	0.00
ATOM 713	1HA	GLY A	51	150.950	2.235	0.276	1.00	0.00
ATOM 714	2HA	GLY A	51	151.357	3.197	1.688	1.00	0.00
ATOM 715	N	LEU A	52	149.620	0.522	1.481	1.00	0.00
ATOM 716	CA	LEU A	52	148.992	-0.557	2.237	1.00	0.00
ATOM 717	C	LEU A	52	150.042	-1.428	2.917	1.00	0.00
ATOM 718	O	LEU A	52	151.004	-1.867	2.284	1.00	0.00
ATOM 719	CB	LEU A	52	148.119	-1.412	1.316	1.00	0.00
ATOM 720	CG	LEU A	52	146.962	-0.670	0.645	1.00	0.00
ATOM 721	CD1	LEU A	52	146.299	-1.550	-0.403	1.00	0.00
ATOM 722	CD2	LEU A	52	145.948	-0.218	1.685	1.00	0.00
ATOM 723	H	LEU A	52	149.846	0.377	0.539	1.00	0.00
ATOM 724	HA	LEU A	52	148.367	-0.108	2.995	1.00	0.00

ATOM 725	1HB	LEU A	52	148.750	-1.828	0.543	1.00	0.00
ATOM 726	2HB	LEU A	52	147.708	-2.224	1.897	1.00	0.00
ATOM 727	HG	LEU A	52	147.347	0.209	0.147	1.00	0.00
ATOM 728	1HD1	LEU A	52	145.535	-2.153	0.066	1.00	0.00
ATOM 729	2HD1	LEU A	52	147.040	-2.194	-0.852	1.00	0.00
ATOM 730	3HD1	LEU A	52	145.851	-0.929	-1.164	1.00	0.00
ATOM 731	1HD2	LEU A	52	144.961	-0.209	1.245	1.00	0.00
ATOM 732	2HD2	LEU A	52	146.198	0.776	2.025	1.00	0.00
ATOM 733	3HD2	LEU A	52	145.962	-0.899	2.523	1.00	0.00
ATOM 734	N	GLU A	53	149.852	-1.676	4.208	1.00	0.00
ATOM 735	CA	GLU A	53	150.784	-2.496	4.974	1.00	0.00
ATOM 736	C	GLU A	53	150.285	-3.933	5.078	1.00	0.00
ATOM 737	O	GLU A	53	149.303	-4.212	5.765	1.00	0.00
ATOM 738	CB	GLU A	53	150.979	-1.910	6.374	1.00	0.00
ATOM 739	CG	GLU A	53	151.968	-2.688	7.226	1.00	0.00
ATOM 740	CD	GLU A	53	151.516	-2.822	8.667	1.00	0.00
ATOM 741	OE1	GLU A	53	150.666	-2.016	9.100	1.00	0.00
ATOM 742	OE2	GLU A	53	152.011	-3.734	9.363	1.00	0.00
ATOM 743	H	GLU A	53	149.067	-1.298	4.657	1.00	0.00
ATOM 744	HA	GLU A	53	151.731	-2.492	4.457	1.00	0.00
ATOM 745	1HB	GLU A	53	151.339	-0.896	6.280	1.00	0.00
ATOM 746	2HB	GLU A	53	150.027	-1.899	6.884	1.00	0.00
ATOM 747	1HG	GLU A	53	152.084	-3.678	6.809	1.00	0.00
ATOM 748	2HG	GLU A	53	152.920	-2.177	7.209	1.00	0.00
ATOM 749	N	LEU A	54	150.969	-4.842	4.392	1.00	0.00
ATOM 750	CA	LEU A	54	150.595	-6.252	4.406	1.00	0.00
ATOM 751	C	LEU A	54	150.871	-6.873	5.772	1.00	0.00
ATOM 752	O	LEU A	54	151.878	-6.569	6.412	1.00	0.00
ATOM 753	CB	LEU A	54	151.358	-7.014	3.322	1.00	0.00

ATOM 754	CG	LEU A	54	151.330	-6.371	1.935	1.00	0.00
ATOM 755	CD1	LEU A	54	152.538	-6.804	1.120	1.00	0.00
ATOM 756	CD2	LEU A	54	150.040	-6.724	1.210	1.00	0.00
ATOM 757	H	LEU A	54	151.744	-4.559	3.863	1.00	0.00
ATOM 758	HA	LEU A	54	149.537	-6.317	4.202	1.00	0.00
ATOM 759	1HB	LEU A	54	152.389	-7.106	3.633	1.00	0.00
ATOM 760	2HB	LEU A	54	150.935	-8.005	3.243	1.00	0.00
ATOM 761	HG	LEU A	54	151.369	-5.296	2.044	1.00	0.00
ATOM 762	1HD1	LEU A	54	152.298	-7.701	0.569	1.00	0.00
ATOM 763	2HD1	LEU A	54	153.367	-7.000	1.783	1.00	0.00
ATOM 764	3HD1	LEU A	54	152.807	-6.018	0.429	1.00	0.00
ATOM 765	1HD2	LEU A	54	150.219	-7.555	0.543	1.00	0.00
ATOM 766	2HD2	LEU A	54	149.701	-5.872	0.640	1.00	0.00
ATOM 767	3HD2	LEU A	54	149.284	-6.998	1.932	1.00	0.00
ATOM 768	N	GLU A	55	149.969	-7.744	6.213	1.00	0.00
ATOM 769	CA	GLU A	55	150.115	-8.408	7.502	1.00	0.00
ATOM 770	C	GLU A	55	151.256	-9.421	7.467	1.00	0.00
ATOM 771	O	GLU A	55	151.917	-9.662	8.478	1.00	0.00
ATOM 772	CB	GLU A	55	148.811	-9.106	7.891	1.00	0.00
ATOM 773	CG	GLU A	55	147.605	-8.182	7.893	1.00	0.00
ATOM 774	CD	GLU A	55	147.676	-7.132	8.984	1.00	0.00
ATOM 775	OE1	GLU A	55	148.644	-6.343	8.985	1.00	0.00
ATOM 776	OE2	GLU A	55	146.764	-7.098	9.837	1.00	0.00
ATOM 777	H	GLU A	55	149.187	-7.945	5.658	1.00	0.00
ATOM 778	HA	GLU A	55	150.343	-7.653	8.240	1.00	0.00
ATOM 779	1HB	GLU A	55	148.623	-9.908	7.193	1.00	0.00
ATOM 780	2HB	GLU A	55	148.920	-9.522	8.882	1.00	0.00
ATOM 781	1HG	GLU A	55	147.547	-7.682	6.937	1.00	0.00
ATOM 782	2HG	GLU A	55	146.713	-8.775	8.042	1.00	0.00

ATOM 783	N	ASP A	56	151.481	-10.011	6.299	1.00	0.00
ATOM 784	CA	ASP A	56	152.542	-10.999	6.133	1.00	0.00
ATOM 785	C	ASP A	56	153.771	-10.371	5.482	1.00	0.00
ATOM 786	O	ASP A	56	153.657	-9.601	4.530	1.00	0.00
ATOM 787	CB	ASP A	56	152.046	-12.173	5.287	1.00	0.00
ATOM 788	CG	ASP A	56	150.859	-12.877	5.915	1.00	0.00
ATOM 789	OD1	ASP A	56	149.718	-12.411	5.716	1.00	0.00
ATOM 790	OD2	ASP A	56	151.072	-13.896	6.606	1.00	0.00
ATOM 791	H	ASP A	56	150.920	-9.778	5.530	1.00	0.00
ATOM 792	HA	ASP A	56	152.813	-11.361	7.112	1.00	0.00
ATOM 793	1HB	ASP A	56	151.752	-11.809	4.314	1.00	0.00
ATOM 794	2HB	ASP A	56	152.847	-12.889	5.172	1.00	0.00
ATOM 795	N	GLU A	57	154.946	-10.710	6.003	1.00	0.00
ATOM 796	CA	GLU A	57	156.197	-10.180	5.472	1.00	0.00
ATOM 797	C	GLU A	57	156.579	-10.884	4.174	1.00	0.00
ATOM 798	O	GLU A	57	157.219	-11.935	4.192	1.00	0.00
ATOM 799	CB	GLU A	57	157.319	-10.339	6.501	1.00	0.00
ATOM 800	CG	GLU A	57	157.144	-9.464	7.732	1.00	0.00
ATOM 801	CD	GLU A	57	158.307	-9.580	8.697	1.00	0.00
ATOM 802	OE1	GLU A	57	158.104	-9.322	9.903	1.00	0.00
ATOM 803	OE2	GLU A	57	159.419	-9.929	8.250	1.00	0.00
ATOM 804	H	GLU A	57	154.973	-11.329	6.762	1.00	0.00
ATOM 805	HA	GLU A	57	156.053	-9.129	5.270	1.00	0.00
ATOM 806	1HB	GLU A	57	157.356	-11.370	6.820	1.00	0.00
ATOM 807	2HB	GLU A	57	158.258	-10.083	6.034	1.00	0.00
ATOM 808	1HG	GLU A	57	157.059	-8.435	7.417	1.00	0.00
ATOM 809	2HG	GLU A	57	156.240	-9.760	8.242	1.00	0.00
ATOM 810	N	CYS A	58	156.180	-10.298	3.050	1.00	0.00
ATOM 811	CA	CYS A	58	156.480	-10.869	1.743	1.00	0.00

ATOM 812	C	CYS A	58	157.720	-10.220	1.137	1.00	0.00
ATOM 813	O	CYS A	58	157.783	-9.000	0.984	1.00	0.00
ATOM 814	CB	CYS A	58	155.287	-10.694	0.801	1.00	0.00
ATOM 815	SG	CYS A	58	155.023	-12.087	-0.321	1.00	0.00
ATOM 816	H	CYS A	58	155.672	-9.462	3.102	1.00	0.00
ATOM 817	HA	CYS A	58	156.669	-11.923	1.877	1.00	0.00
ATOM 818	1HB	CYS A	58	154.390	-10.572	1.388	1.00	0.00
ATOM 819	2HB	CYS A	58	155.439	-9.811	0.199	1.00	0.00
ATOM 820	HG	CYS A	58	155.638	-11.999	-1.053	1.00	0.00
ATOM 821	N	ALA A	59	158.705	-11.043	0.793	1.00	0.00
ATOM 822	CA	ALA A	59	159.943	-10.550	0.204	1.00	0.00
ATOM 823	C	ALA A	59	159.673	-9.817	-1.106	1.00	0.00
ATOM 824	O	ALA A	59	159.065	-10.366	-2.023	1.00	0.00
ATOM 825	CB	ALA A	59	160.914	-11.699	-0.023	1.00	0.00
ATOM 826	H	ALA A	59	158.596	-12.007	0.939	1.00	0.00
ATOM 827	HA	ALA A	59	160.394	-9.862	0.904	1.00	0.00
ATOM 828	1HB	ALA A	59	161.882	-11.305	-0.291	1.00	0.00
ATOM 829	2HB	ALA A	59	160.547	-12.328	-0.821	1.00	0.00
ATOM 830	3HB	ALA A	59	161.000	-12.281	0.882	1.00	0.00
ATOM 831	N	GLY A	60	160.131	-8.571	-1.185	1.00	0.00
ATOM 832	CA	GLY A	60	159.930	-7.782	-2.386	1.00	0.00
ATOM 833	C	GLY A	60	159.482	-6.366	-2.081	1.00	0.00
ATOM 834	O	GLY A	60	159.770	-5.441	-2.841	1.00	0.00
ATOM 835	H	GLY A	60	160.610	-8.184	-0.422	1.00	0.00
ATOM 836	1HA	GLY A	60	160.857	-7.744	-2.938	1.00	0.00
ATOM 837	2HA	GLY A	60	159.179	-8.262	-2.997	1.00	0.00
ATOM 838	N	CYS A	61	158.776	-6.197	-0.969	1.00	0.00
ATOM 839	CA	CYS A	61	158.287	-4.884	-0.566	1.00	0.00
ATOM 840	C	CYS A	61	159.295	-4.182	0.338	1.00	0.00

ATOM 841	O	CYS A	61	160.328	-4.750	0.692	1.00	0.00
ATOM 842	CB	CYS A	61	156.944	-5.014	0.154	1.00	0.00
ATOM 843	SG	CYS A	61	155.715	-5.985	-0.749	1.00	0.00
ATOM 844	H	CYS A	61	158.578	-6.973	-0.405	1.00	0.00
ATOM 845	HA	CYS A	61	158.151	-4.292	-1.460	1.00	0.00
ATOM 846	1HB	CYS A	61	157.101	-5.492	1.109	1.00	0.00
ATOM 847	2HB	CYS A	61	156.533	-4.028	0.313	1.00	0.00
ATOM 848	HG	CYS A	61	156.157	-6.409	-1.489	1.00	0.00
ATOM 849	N	THR A	62	158.989	-2.942	0.708	1.00	0.00
ATOM 850	CA	THR A	62	159.869	-2.162	1.571	1.00	0.00
ATOM 851	C	THR A	62	159.294	-2.056	2.979	1.00	0.00
ATOM 852	O	THR A	62	158.319	-2.728	3.315	1.00	0.00
ATOM 853	CB	THR A	62	160.082	-0.764	0.987	1.00	0.00
ATOM 854	OG1	THR A	62	158.912	0.020	1.126	1.00	0.00
ATOM 855	CG2	THR A	62	160.453	-0.778	-0.480	1.00	0.00
ATOM 856	H	THR A	62	158.152	-2.542	0.392	1.00	0.00
ATOM 857	HA	THR A	62	160.820	-2.671	1.620	1.00	0.00
ATOM 858	HB	THR A	62	160.883	-0.280	1.527	1.00	0.00
ATOM 859	HG1	THR A	62	158.171	-0.431	0.713	1.00	0.00
ATOM 860	1HG2	THR A	62	161.140	-1.591	-0.670	1.00	0.00
ATOM 861	2HG2	THR A	62	160.923	0.157	-0.741	1.00	0.00
ATOM 862	3HG2	THR A	62	159.563	-0.914	-1.076	1.00	0.00
ATOM 863	N	ASP A	63	159.903	-1.205	3.799	1.00	0.00
ATOM 864	CA	ASP A	63	159.452	-1.010	5.172	1.00	0.00
ATOM 865	C	ASP A	63	158.724	0.321	5.321	1.00	0.00
ATOM 866	O	ASP A	63	158.778	0.956	6.375	1.00	0.00
ATOM 867	CB	ASP A	63	160.640	-1.066	6.134	1.00	0.00
ATOM 868	CG	ASP A	63	161.735	-0.087	5.758	1.00	0.00
ATOM 869	OD1	ASP A	63	162.819	-0.542	5.339	1.00	0.00

ATOM 870	OD2	ASP A	63	161.507	1.135	5.882	1.00	0.00
ATOM 871	H	ASP A	63	160.675	-0.697	3.472	1.00	0.00
ATOM 872	HA	ASP A	63	158.767	-1.810	5.412	1.00	0.00
ATOM 873	1HB	ASP A	63	160.299	-0.830	7.131	1.00	0.00
ATOM 874	2HB	ASP A	63	161.055	-2.063	6.126	1.00	0.00
ATOM 875	N	GLY A	64	158.042	0.739	4.259	1.00	0.00
ATOM 876	CA	GLY A	64	157.313	1.993	4.292	1.00	0.00
ATOM 877	C	GLY A	64	157.989	3.080	3.479	1.00	0.00
ATOM 878	O	GLY A	64	157.932	4.257	3.834	1.00	0.00
ATOM 879	H	GLY A	64	158.035	0.191	3.446	1.00	0.00
ATOM 880	1HA	GLY A	64	156.320	1.829	3.899	1.00	0.00
ATOM 881	2HA	GLY A	64	157.232	2.323	5.317	1.00	0.00
ATOM 882	N	THR A	65	158.632	2.684	2.386	1.00	0.00
ATOM 883	CA	THR A	65	159.323	3.632	1.520	1.00	0.00
ATOM 884	C	THR A	65	158.901	3.449	0.066	1.00	0.00
ATOM 885	O	THR A	65	158.941	2.340	-0.468	1.00	0.00
ATOM 886	CB	THR A	65	160.838	3.462	1.649	1.00	0.00
ATOM 887	OG1	THR A	65	161.238	2.179	1.200	1.00	0.00
ATOM 888	CG2	THR A	65	161.341	3.629	3.066	1.00	0.00
ATOM 889	H	THR A	65	158.642	1.731	2.156	1.00	0.00
ATOM 890	HA	THR A	65	159.054	4.628	1.838	1.00	0.00
ATOM 891	HB	THR A	65	161.327	4.204	1.034	1.00	0.00
ATOM 892	HG1	THR A	65	160.989	2.069	0.279	1.00	0.00
ATOM 893	1HG2	THR A	65	162.251	4.211	3.058	1.00	0.00
ATOM 894	2HG2	THR A	65	161.536	2.659	3.496	1.00	0.00
ATOM 895	3HG2	THR A	65	160.594	4.140	3.656	1.00	0.00
ATOM 896	N	PHE A	66	158.496	4.543	-0.570	1.00	0.00
ATOM 897	CA	PHE A	66	158.066	4.504	-1.963	1.00	0.00
ATOM 898	C	PHE A	66	159.056	5.241	-2.859	1.00	0.00

ATOM 899	O	PHE A	66	159.184	6.463	-2.785	1.00	0.00
ATOM 900	CB	PHE A	66	156.674	5.121	-2.107	1.00	0.00
ATOM 901	CG	PHE A	66	156.062	4.914	-3.462	1.00	0.00
ATOM 902	CD1	PHE A	66	155.962	3.642	-4.005	1.00	0.00
ATOM 903	CD2	PHE A	66	155.588	5.989	-4.195	1.00	0.00
ATOM 904	CE1	PHE A	66	155.399	3.448	-5.252	1.00	0.00
ATOM 905	CE2	PHE A	66	155.025	5.802	-5.443	1.00	0.00
ATOM 906	CZ	PHE A	66	154.931	4.530	-5.972	1.00	0.00
ATOM 907	H	PHE A	66	158.487	5.398	-0.090	1.00	0.00
ATOM 908	HA	PHE A	66	158.025	3.469	-2.268	1.00	0.00
ATOM 909	1HB	PHE A	66	156.015	4.679	-1.374	1.00	0.00
ATOM 910	2HB	PHE A	66	156.739	6.185	-1.929	1.00	0.00
ATOM 911	HD1	PHE A	66	156.328	2.796	-3.442	1.00	0.00
ATOM 912	HD2	PHE A	66	155.662	6.985	-3.783	1.00	0.00
ATOM 913	HE1	PHE A	66	155.328	2.452	-5.663	1.00	0.00
ATOM 914	HE2	PHE A	66	154.659	6.649	-6.004	1.00	0.00
ATOM 915	HZ	PHE A	66	154.491	4.381	-6.948	1.00	0.00
ATOM 916	N	ARG A	67	159.755	4.490	-3.704	1.00	0.00
ATOM 917	CA	ARG A	67	160.734	5.073	-4.613	1.00	0.00
ATOM 918	C	ARG A	67	161.838	5.788	-3.841	1.00	0.00
ATOM 919	O	ARG A	67	162.346	6.820	-4.278	1.00	0.00
ATOM 920	CB	ARG A	67	160.052	6.049	-5.573	1.00	0.00
ATOM 921	CG	ARG A	67	158.792	5.490	-6.216	1.00	0.00
ATOM 922	CD	ARG A	67	158.603	6.025	-7.627	1.00	0.00
ATOM 923	NE	ARG A	67	159.699	5.635	-8.512	1.00	0.00
ATOM 924	CZ	ARG A	67	159.811	4.430	-9.066	1.00	0.00
ATOM 925	NH1	ARG A	67	158.898	3.496	-8.831	1.00	0.00
ATOM 926	NH2	ARG A	67	160.839	4.160	-9.859	1.00	0.00
ATOM 927	H	ARG A	67	159.609	3.521	-3.715	1.00	0.00

ATOM 928	HA	ARG A	67	161.175	4.269	-5.185	1.00	0.00
ATOM 929	1HB	ARG A	67	159.786	6.944	-5.030	1.00	0.00
ATOM 930	2HB	ARG A	67	160.746	6.309	-6.359	1.00	0.00
ATOM 931	1HG	ARG A	67	158.868	4.414	-6.257	1.00	0.00
ATOM 932	2HG	ARG A	67	157.939	5.771	-5.616	1.00	0.00
ATOM 933	1HD	ARG A	67	157.677	5.636	-8.024	1.00	0.00
ATOM 934	2HD	ARG A	67	158.551	7.103	-7.585	1.00	0.00
ATOM 935	HE	ARG A	67	160.387	6.307	-8.702	1.00	0.00
ATOM 936	1HH1	ARG A	67	158.121	3.694	-8.234	1.00	0.00
ATOM 937	2HH1	ARG A	67	158.989	2.592	-9.251	1.00	0.00
ATOM 938	1HH2	ARG A	67	161.530	4.860	-10.040	1.00	0.00
ATOM 939	2HH2	ARG A	67	160.924	3.254	-10.275	1.00	0.00
ATOM 940	N	GLY A	68	162.203	5.234	-2.690	1.00	0.00
ATOM 941	CA	GLY A	68	163.242	5.832	-1.875	1.00	0.00
ATOM 942	C	GLY A	68	162.747	7.030	-1.090	1.00	0.00
ATOM 943	O	GLY A	68	163.514	7.944	-0.788	1.00	0.00
ATOM 944	H	GLY A	68	161.762	4.410	-2.391	1.00	0.00
ATOM 945	1HA	GLY A	68	163.614	5.091	-1.183	1.00	0.00
ATOM 946	2HA	GLY A	68	164.052	6.146	-2.518	1.00	0.00
ATOM 947	N	THR A	69	161.460	7.025	-0.757	1.00	0.00
ATOM 948	CA	THR A	69	160.862	8.120	-0.002	1.00	0.00
ATOM 949	C	THR A	69	160.025	7.587	1.157	1.00	0.00
ATOM 950	O	THR A	69	158.921	7.081	0.958	1.00	0.00
ATOM 951	CB	THR A	69	159.993	8.984	-0.918	1.00	0.00
ATOM 952	OG1	THR A	69	160.667	9.263	-2.131	1.00	0.00
ATOM 953	CG2	THR A	69	159.599	10.306	-0.297	1.00	0.00
ATOM 954	H	THR A	69	160.899	6.268	-1.026	1.00	0.00
ATOM 955	HA	THR A	69	161.662	8.725	0.396	1.00	0.00
ATOM 956	HB	THR A	69	159.086	8.445	-1.150	1.00	0.00

ATOM 957	HG1	THR A	69	160.114	9.005	-2.872	1.00	0.00
ATOM 958	1HG2	THR A	69	160.484	10.901	-0.126	1.00	0.00
ATOM 959	2HG2	THR A	69	159.099	10.128	0.644	1.00	0.00
ATOM 960	3HG2	THR A	69	158.934	10.834	-0.963	1.00	0.00
ATOM 961	N	ARG A	70	160.560	7.705	2.368	1.00	0.00
ATOM 962	CA	ARG A	70	159.862	7.237	3.560	1.00	0.00
ATOM 963	C	ARG A	70	158.583	8.034	3.793	1.00	0.00
ATOM 964	O	ARG A	70	158.604	9.265	3.826	1.00	0.00
ATOM 965	CB	ARG A	70	160.772	7.343	4.785	1.00	0.00
ATOM 966	CG	ARG A	70	160.162	6.760	6.050	1.00	0.00
ATOM 967	CD	ARG A	70	160.641	7.498	7.289	1.00	0.00
ATOM 968	NE	ARG A	70	161.937	7.009	7.750	1.00	0.00
ATOM 969	CZ	ARG A	70	162.648	7.587	8.716	1.00	0.00
ATOM 970	NH1	ARG A	70	162.191	8.674	9.325	1.00	0.00
ATOM 971	NH2	ARG A	70	163.818	7.076	9.075	1.00	0.00
ATOM 972	H	ARG A	70	161.443	8.118	2.464	1.00	0.00
ATOM 973	HA	ARG A	70	159.602	6.200	3.405	1.00	0.00
ATOM 974	1HB	ARG A	70	161.693	6.817	4.582	1.00	0.00
ATOM 975	2HB	ARG A	70	160.995	8.384	4.964	1.00	0.00
ATOM 976	1HG	ARG A	70	159.087	6.841	5.989	1.00	0.00
ATOM 977	2HG	ARG A	70	160.443	5.721	6.128	1.00	0.00
ATOM 978	1HD	ARG A	70	160.726	8.549	7.057	1.00	0.00
ATOM 979	2HD	ARG A	70	159.914	7.362	8.077	1.00	0.00
ATOM 980	HE	ARG A	70	162.299	6.206	7.318	1.00	0.00
ATOM 981	1HH1	ARG A	70	161.309	9.064	9.060	1.00	0.00
ATOM 982	2HH1	ARG A	70	162.730	9.104	10.050	1.00	0.00
ATOM 983	1HH2	ARG A	70	164.167	6.258	8.620	1.00	0.00
ATOM 984	2HH2	ARG A	70	164.353	7.511	9.800	1.00	0.00
ATOM 985	N	TYR A	71	157.470	7.325	3.952	1.00	0.00

ATOM 986	CA	TYR A	71	156.180	7.967	4.180	1.00	0.00
ATOM 987	C	TYR A	71	155.674	7.682	5.590	1.00	0.00
ATOM 988	O	TYR A	71	155.163	8.573	6.270	1.00	0.00
ATOM 989	CB	TYR A	71	155.157	7.484	3.151	1.00	0.00
ATOM 990	CG	TYR A	71	155.254	8.194	1.820	1.00	0.00
ATOM 991	CD1	TYR A	71	155.379	9.576	1.756	1.00	0.00
ATOM 992	CD2	TYR A	71	155.222	7.483	0.628	1.00	0.00
ATOM 993	CE1	TYR A	71	155.468	10.230	0.542	1.00	0.00
ATOM 994	CE2	TYR A	71	155.311	8.130	-0.592	1.00	0.00
ATOM 995	CZ	TYR A	71	155.433	9.502	-0.628	1.00	0.00
ATOM 996	OH	TYR A	71	155.522	10.149	-1.840	1.00	0.00
ATOM 997	H	TYR A	71	157.517	6.347	3.915	1.00	0.00
ATOM 998	HA	TYR A	71	156.316	9.032	4.068	1.00	0.00
ATOM 999	1HB	TYR A	71	155.305	6.429	2.975	1.00	0.00
ATOM 1000	2HB	TYR A	71	154.162	7.643	3.541	1.00	0.00
ATOM 1001	HD1	TYR A	71	155.406	10.144	2.675	1.00	0.00
ATOM 1002	HD2	TYR A	71	155.126	6.408	0.660	1.00	0.00
ATOM 1003	HE1	TYR A	71	155.564	11.305	0.513	1.00	0.00
ATOM 1004	HE2	TYR A	71	155.284	7.558	-1.507	1.00	0.00
ATOM 1005	HH	TYR A	71	154.666	10.137	-2.273	1.00	0.00
ATOM 1006	N	PHE A	72	155.818	6.433	6.025	1.00	0.00
ATOM 1007	CA	PHE A	72	155.374	6.031	7.354	1.00	0.00
ATOM 1008	C	PHE A	72	156.371	5.067	7.991	1.00	0.00
ATOM 1009	O	PHE A	72	157.400	4.741	7.399	1.00	0.00
ATOM 1010	CB	PHE A	72	153.994	5.378	7.277	1.00	0.00
ATOM 1011	CG	PHE A	72	153.913	4.259	6.279	1.00	0.00
ATOM 1012	CD1	PHE A	72	153.609	4.517	4.953	1.00	0.00
ATOM 1013	CD2	PHE A	72	154.142	2.948	6.668	1.00	0.00
ATOM 1014	CE1	PHE A	72	153.534	3.488	4.031	1.00	0.00

ATOM	1015	CE2	PHE	A	72	154.069	1.916	5.752	1.00	0.00
ATOM	1016	CZ	PHE	A	72	153.765	2.186	4.432	1.00	0.00
ATOM	1017	H	PHE	A	72	156.233	5.768	5.436	1.00	0.00
ATOM	1018	HA	PHE	A	72	155.310	6.918	7.965	1.00	0.00
ATOM	1019	1HB	PHE	A	72	153.740	4.976	8.247	1.00	0.00
ATOM	1020	2HB	PHE	A	72	153.265	6.125	7.000	1.00	0.00
ATOM	1021	HD1	PHE	A	72	153.430	5.534	4.638	1.00	0.00
ATOM	1022	HD2	PHE	A	72	154.380	2.735	7.700	1.00	0.00
ATOM	1023	HE1	PHE	A	72	153.296	3.703	3.000	1.00	0.00
ATOM	1024	HE2	PHE	A	72	154.249	0.899	6.067	1.00	0.00
ATOM	1025	HZ	PHE	A	72	153.707	1.383	3.714	1.00	0.00
ATOM	1026	N	THR	A	73	156.058	4.615	9.200	1.00	0.00
ATOM	1027	CA	THR	A	73	156.926	3.688	9.918	1.00	0.00
ATOM	1028	C	THR	A	73	156.249	2.332	10.092	1.00	0.00
ATOM	1029	O	THR	A	73	155.294	2.197	10.857	1.00	0.00
ATOM	1030	CB	THR	A	73	157.300	4.262	11.286	1.00	0.00
ATOM	1031	OG1	THR	A	73	157.264	5.679	11.261	1.00	0.00
ATOM	1032	CG2	THR	A	73	158.677	3.846	11.754	1.00	0.00
ATOM	1033	H	THR	A	73	155.224	4.911	9.621	1.00	0.00
ATOM	1034	HA	THR	A	73	157.825	3.556	9.336	1.00	0.00
ATOM	1035	HB	THR	A	73	156.583	3.918	12.018	1.00	0.00
ATOM	1036	HG1	THR	A	73	157.170	6.012	12.157	1.00	0.00
ATOM	1037	1HG2	THR	A	73	158.583	3.105	12.534	1.00	0.00
ATOM	1038	2HG2	THR	A	73	159.203	4.708	12.137	1.00	0.00
ATOM	1039	3HG2	THR	A	73	159.228	3.428	10.924	1.00	0.00
ATOM	1040	N	CYS	A	74	156.751	1.330	9.377	1.00	0.00
ATOM	1041	CA	CYS	A	74	156.194	-0.016	9.452	1.00	0.00
ATOM	1042	C	CYS	A	74	157.303	-1.064	9.444	1.00	0.00
ATOM	1043	O	CYS	A	74	158.474	-0.742	9.240	1.00	0.00

ATOM 1044	CB	CYS A	74	155.237	-0.260	8.284	1.00	0.00
ATOM 1045	SG	CYS A	74	153.533	0.249	8.608	1.00	0.00
ATOM 1046	H	CYS A	74	157.513	1.501	8.785	1.00	0.00
ATOM 1047	HA	CYS A	74	155.646	-0.097	10.379	1.00	0.00
ATOM 1048	1HB	CYS A	74	155.585	0.289	7.423	1.00	0.00
ATOM 1049	2HB	CYS A	74	155.227	-1.316	8.052	1.00	0.00
ATOM 1050	HG	CYS A	74	153.000	-0.543	8.708	1.00	0.00
ATOM 1051	N	ALA A	75	156.926	-2.318	9.665	1.00	0.00
ATOM 1052	CA	ALA A	75	157.887	-3.414	9.683	1.00	0.00
ATOM 1053	C	ALA A	75	158.563	-3.573	8.325	1.00	0.00
ATOM 1054	O	ALA A	75	158.307	-2.802	7.400	1.00	0.00
ATOM 1055	CB	ALA A	75	157.202	-4.710	10.088	1.00	0.00
ATOM 1056	H	ALA A	75	155.977	-2.512	9.820	1.00	0.00
ATOM 1057	HA	ALA A	75	158.639	-3.185	10.424	1.00	0.00
ATOM 1058	1HB	ALA A	75	156.374	-4.490	10.747	1.00	0.00
ATOM 1059	2HB	ALA A	75	157.909	-5.347	10.599	1.00	0.00
ATOM 1060	3HB	ALA A	75	156.835	-5.214	9.206	1.00	0.00
ATOM 1061	N	LEU A	76	159.428	-4.576	8.214	1.00	0.00
ATOM 1062	CA	LEU A	76	160.140	-4.836	6.970	1.00	0.00
ATOM 1063	C	LEU A	76	159.343	-5.774	6.071	1.00	0.00
ATOM 1064	O	LEU A	76	158.761	-6.754	6.538	1.00	0.00
ATOM 1065	CB	LEU A	76	161.516	-5.439	7.262	1.00	0.00
ATOM 1066	CG	LEU A	76	162.491	-4.508	7.985	1.00	0.00
ATOM 1067	CD1	LEU A	76	163.544	-5.313	8.731	1.00	0.00
ATOM 1068	CD2	LEU A	76	163.146	-3.554	6.999	1.00	0.00
ATOM 1069	H	LEU A	76	159.589	-5.155	8.988	1.00	0.00
ATOM 1070	HA	LEU A	76	160.272	-3.893	6.460	1.00	0.00
ATOM 1071	1HB	LEU A	76	161.377	-6.322	7.869	1.00	0.00
ATOM 1072	2HB	LEU A	76	161.963	-5.733	6.325	1.00	0.00

ATOM 1073	HG	LEU A	76	161.946	-3.920	8.711	1.00	0.00
ATOM 1074	1HD1	LEU A	76	163.714	-6.248	8.216	1.00	0.00
ATOM 1075	2HD1	LEU A	76	163.200	-5.514	9.735	1.00	0.00
ATOM 1076	3HD1	LEU A	76	164.465	-4.752	8.771	1.00	0.00
ATOM 1077	1HD2	LEU A	76	164.105	-3.950	6.697	1.00	0.00
ATOM 1078	2HD2	LEU A	76	163.287	-2.591	7.468	1.00	0.00
ATOM 1079	3HD2	LEU A	76	162.513	-3.442	6.131	1.00	0.00
ATOM 1080	N	LYS A	77	159.317	-5.468	4.778	1.00	0.00
ATOM 1081	CA	LYS A	77	158.590	-6.284	3.812	1.00	0.00
ATOM 1082	C	LYS A	77	157.095	-6.288	4.118	1.00	0.00
ATOM 1083	O	LYS A	77	156.429	-7.316	4.000	1.00	0.00
ATOM 1084	CB	LYS A	77	159.128	-7.715	3.813	1.00	0.00
ATOM 1085	CG	LYS A	77	160.634	-7.800	3.630	1.00	0.00
ATOM 1086	CD	LYS A	77	161.057	-7.310	2.255	1.00	0.00
ATOM 1087	CE	LYS A	77	162.356	-6.523	2.319	1.00	0.00
ATOM 1088	NZ	LYS A	77	163.544	-7.416	2.398	1.00	0.00
ATOM 1089	H	LYS A	77	159.800	-4.674	4.465	1.00	0.00
ATOM 1090	HA	LYS A	77	158.743	-5.853	2.833	1.00	0.00
ATOM 1091	1HB	LYS A	77	158.874	-8.183	4.753	1.00	0.00
ATOM 1092	2HB	LYS A	77	158.658	-8.266	3.010	1.00	0.00
ATOM 1093	1HG	LYS A	77	161.113	-7.190	4.381	1.00	0.00
ATOM 1094	2HG	LYS A	77	160.943	-8.829	3.747	1.00	0.00
ATOM 1095	1HD	LYS A	77	161.197	-8.162	1.607	1.00	0.00
ATOM 1096	2HD	LYS A	77	160.280	-6.675	1.855	1.00	0.00
ATOM 1097	1HE	LYS A	77	162.435	-5.912	1.433	1.00	0.00
ATOM 1098	2HE	LYS A	77	162.333	-5.888	3.192	1.00	0.00
ATOM 1099	1HZ	LYS A	77	163.466	-8.042	3.225	1.00	0.00
ATOM 1100	2HZ	LYS A	77	164.412	-6.850	2.488	1.00	0.00
ATOM 1101	3HZ	LYS A	77	163.610	-7.999	1.540	1.00	0.00

ATOM 1102	N	LYS A	78	156.575	-5.129	4.511	1.00	0.00
ATOM 1103	CA	LYS A	78	155.158	-4.999	4.835	1.00	0.00
ATOM 1104	C	LYS A	78	154.626	-3.635	4.409	1.00	0.00
ATOM 1105	O	LYS A	78	153.813	-3.029	5.105	1.00	0.00
ATOM 1106	CB	LYS A	78	154.935	-5.202	6.335	1.00	0.00
ATOM 1107	CG	LYS A	78	155.471	-6.525	6.856	1.00	0.00
ATOM 1108	CD	LYS A	78	155.046	-6.771	8.295	1.00	0.00
ATOM 1109	CE	LYS A	78	153.892	-7.759	8.376	1.00	0.00
ATOM 1110	NZ	LYS A	78	152.858	-7.327	9.357	1.00	0.00
ATOM 1111	H	LYS A	78	157.156	-4.344	4.585	1.00	0.00
ATOM 1112	HA	LYS A	78	154.624	-5.766	4.293	1.00	0.00
ATOM 1113	1HB	LYS A	78	155.426	-4.403	6.871	1.00	0.00
ATOM 1114	2HB	LYS A	78	153.875	-5.162	6.538	1.00	0.00
ATOM 1115	1HG	LYS A	78	155.092	-7.324	6.238	1.00	0.00
ATOM 1116	2HG	LYS A	78	156.550	-6.510	6.806	1.00	0.00
ATOM 1117	1HD	LYS A	78	155.886	-7.169	8.845	1.00	0.00
ATOM 1118	2HD	LYS A	78	154.737	-5.833	8.734	1.00	0.00
ATOM 1119	1HE	LYS A	78	153.438	-7.843	7.401	1.00	0.00
ATOM 1120	2HE	LYS A	78	154.281	-8.721	8.676	1.00	0.00
ATOM 1121	1HZ	LYS A	78	152.177	-8.095	9.519	1.00	0.00
ATOM 1122	2HZ	LYS A	78	152.348	-6.496	8.995	1.00	0.00
ATOM 1123	3HZ	LYS A	78	153.306	-7.077	10.262	1.00	0.00
ATOM 1124	N	ALA A	79	155.092	-3.158	3.259	1.00	0.00
ATOM 1125	CA	ALA A	79	154.663	-1.865	2.739	1.00	0.00
ATOM 1126	C	ALA A	79	154.486	-1.913	1.224	1.00	0.00
ATOM 1127	O	ALA A	79	155.458	-1.832	0.474	1.00	0.00
ATOM 1128	CB	ALA A	79	155.663	-0.785	3.120	1.00	0.00
ATOM 1129	H	ALA A	79	155.738	-3.687	2.748	1.00	0.00
ATOM 1130	HA	ALA A	79	153.714	-1.621	3.194	1.00	0.00

ATOM 1131	1HB	ALA A	79	156.642	-1.226	3.237	1.00	0.00
ATOM 1132	2HB	ALA A	79	155.362	-0.326	4.050	1.00	0.00
ATOM 1133	3HB	ALA A	79	155.697	-0.034	2.344	1.00	0.00
ATOM 1134	N	LEU A	80	153.240	-2.048	0.784	1.00	0.00
ATOM 1135	CA	LEU A	80	152.935	-2.108	-0.642	1.00	0.00
ATOM 1136	C	LEU A	80	152.158	-0.872	-1.085	1.00	0.00
ATOM 1137	O	LEU A	80	150.982	-0.716	-0.757	1.00	0.00
ATOM 1138	CB	LEU A	80	152.132	-3.370	-0.960	1.00	0.00
ATOM 1139	CG	LEU A	80	151.709	-3.517	-2.423	1.00	0.00
ATOM 1140	CD1	LEU A	80	152.928	-3.673	-3.318	1.00	0.00
ATOM 1141	CD2	LEU A	80	150.769	-4.701	-2.589	1.00	0.00
ATOM 1142	H	LEU A	80	152.506	-2.108	1.431	1.00	0.00
ATOM 1143	HA	LEU A	80	153.871	-2.142	-1.180	1.00	0.00
ATOM 1144	1HB	LEU A	80	152.730	-4.230	-0.692	1.00	0.00
ATOM 1145	2HB	LEU A	80	151.241	-3.369	-0.350	1.00	0.00
ATOM 1146	HG	LEU A	80	151.182	-2.625	-2.729	1.00	0.00
ATOM 1147	1HD1	LEU A	80	152.661	-3.431	-4.336	1.00	0.00
ATOM 1148	2HD1	LEU A	80	153.282	-4.692	-3.270	1.00	0.00
ATOM 1149	3HD1	LEU A	80	153.708	-3.005	-2.982	1.00	0.00
ATOM 1150	1HD2	LEU A	80	149.747	-4.365	-2.496	1.00	0.00
ATOM 1151	2HD2	LEU A	80	150.977	-5.436	-1.824	1.00	0.00
ATOM 1152	3HD2	LEU A	80	150.916	-5.145	-3.562	1.00	0.00
ATOM 1153	N	PHE A	81	152.824	0.002	-1.833	1.00	0.00
ATOM 1154	CA	PHE A	81	152.195	1.224	-2.321	1.00	0.00
ATOM 1155	C	PHE A	81	151.421	0.959	-3.609	1.00	0.00
ATOM 1156	O	PHE A	81	151.893	0.242	-4.492	1.00	0.00
ATOM 1157	CB	PHE A	81	153.250	2.305	-2.561	1.00	0.00
ATOM 1158	CG	PHE A	81	153.927	2.771	-1.304	1.00	0.00
ATOM 1159	CD1	PHE A	81	155.141	2.230	-0.913	1.00	0.00

ATOM 1160	CD2	PHE A	81	153.349	3.752	-0.514	1.00	0.00
ATOM 1161	CE1	PHE A	81	155.766	2.657	0.243	1.00	0.00
ATOM 1162	CE2	PHE A	81	153.970	4.184	0.643	1.00	0.00
ATOM 1163	CZ	PHE A	81	155.180	3.636	1.022	1.00	0.00
ATOM 1164	H	PHE A	81	153.759	-0.179	-2.062	1.00	0.00
ATOM 1165	HA	PHE A	81	151.505	1.567	-1.565	1.00	0.00
ATOM 1166	1HB	PHE A	81	154.011	1.916	-3.222	1.00	0.00
ATOM 1167	2HB	PHE A	81	152.780	3.160	-3.024	1.00	0.00
ATOM 1168	HD1	PHE A	81	155.600	1.464	-1.522	1.00	0.00
ATOM 1169	HD2	PHE A	81	152.404	4.182	-0.810	1.00	0.00
ATOM 1170	HE1	PHE A	81	156.712	2.227	0.537	1.00	0.00
ATOM 1171	HE2	PHE A	81	153.509	4.949	1.250	1.00	0.00
ATOM 1172	HZ	PHE A	81	155.667	3.972	1.926	1.00	0.00
ATOM 1173	N	VAL A	82	150.230	1.540	-3.708	1.00	0.00
ATOM 1174	CA	VAL A	82	149.392	1.366	-4.888	1.00	0.00
ATOM 1175	C	VAL A	82	148.405	2.518	-5.036	1.00	0.00
ATOM 1176	O	VAL A	82	148.216	3.311	-4.112	1.00	0.00
ATOM 1177	CB	VAL A	82	148.608	0.041	-4.830	1.00	0.00
ATOM 1178	CG1	VAL A	82	149.551	-1.144	-4.972	1.00	0.00
ATOM 1179	CG2	VAL A	82	147.812	-0.053	-3.537	1.00	0.00
ATOM 1180	H	VAL A	82	149.908	2.099	-2.971	1.00	0.00
ATOM 1181	HA	VAL A	82	150.036	1.342	-5.754	1.00	0.00
ATOM 1182	HB	VAL A	82	147.913	0.020	-5.657	1.00	0.00
ATOM 1183	1HG1	VAL A	82	150.173	-1.007	-5.845	1.00	0.00
ATOM 1184	2HG1	VAL A	82	148.974	-2.051	-5.080	1.00	0.00
ATOM 1185	3HG1	VAL A	82	150.174	-1.217	-4.093	1.00	0.00
ATOM 1186	1HG2	VAL A	82	148.320	0.501	-2.761	1.00	0.00
ATOM 1187	2HG2	VAL A	82	147.726	-1.088	-3.242	1.00	0.00
ATOM 1188	3HG2	VAL A	82	146.827	0.361	-3.690	1.00	0.00

ATOM 1189	N	LYS A	83	147.779	2.607	-6.205	1.00	0.00
ATOM 1190	CA	LYS A	83	146.812	3.663	-6.476	1.00	0.00
ATOM 1191	C	LYS A	83	145.588	3.528	-5.576	1.00	0.00
ATOM 1192	O	LYS A	83	144.925	2.491	-5.563	1.00	0.00
ATOM 1193	CB	LYS A	83	146.386	3.628	-7.943	1.00	0.00
ATOM 1194	CG	LYS A	83	147.535	3.842	-8.914	1.00	0.00
ATOM 1195	CD	LYS A	83	147.328	3.060	-10.201	1.00	0.00
ATOM 1196	CE	LYS A	83	147.711	3.883	-11.421	1.00	0.00
ATOM 1197	NZ	LYS A	83	148.378	3.054	-12.463	1.00	0.00
ATOM 1198	H	LYS A	83	147.972	1.946	-6.901	1.00	0.00
ATOM 1199	HA	LYS A	83	147.288	4.611	-6.273	1.00	0.00
ATOM 1200	1HB	LYS A	83	145.938	2.667	-8.153	1.00	0.00
ATOM 1201	2HB	LYS A	83	145.651	4.402	-8.112	1.00	0.00
ATOM 1202	1HG	LYS A	83	147.605	4.893	-9.149	1.00	0.00
ATOM 1203	2HG	LYS A	83	148.453	3.513	-8.449	1.00	0.00
ATOM 1204	1HD	LYS A	83	147.937	2.171	-10.174	1.00	0.00
ATOM 1205	2HD	LYS A	83	146.286	2.784	-10.277	1.00	0.00
ATOM 1206	1HE	LYS A	83	146.818	4.321	-11.840	1.00	0.00
ATOM 1207	2HE	LYS A	83	148.386	4.669	-11.112	1.00	0.00
ATOM 1208	1HZ	LYS A	83	149.259	2.646	-12.086	1.00	0.00
ATOM 1209	2HZ	LYS A	83	148.608	3.638	-13.292	1.00	0.00
ATOM 1210	3HZ	LYS A	83	147.750	2.280	-12.760	1.00	0.00
ATOM 1211	N	LEU A	84	145.297	4.584	-4.824	1.00	0.00
ATOM 1212	CA	LEU A	84	144.155	4.589	-3.920	1.00	0.00
ATOM 1213	C	LEU A	84	142.854	4.351	-4.682	1.00	0.00
ATOM 1214	O	LEU A	84	141.904	3.781	-4.146	1.00	0.00
ATOM 1215	CB	LEU A	84	144.084	5.921	-3.168	1.00	0.00
ATOM 1216	CG	LEU A	84	142.860	6.097	-2.270	1.00	0.00
ATOM 1217	CD1	LEU A	84	143.005	5.271	-1.001	1.00	0.00

ATOM 1218	CD2	LEU A	84	142.654	7.566	-1.931	1.00	0.00
ATOM 1219	H	LEU A	84	145.865	5.381	-4.880	1.00	0.00
ATOM 1220	HA	LEU A	84	144.292	3.790	-3.207	1.00	0.00
ATOM 1221	1HB	LEU A	84	144.970	6.011	-2.557	1.00	0.00
ATOM 1222	2HB	LEU A	84	144.087	6.720	-3.895	1.00	0.00
ATOM 1223	HG	LEU A	84	141.982	5.748	-2.796	1.00	0.00
ATOM 1224	1HD1	LEU A	84	143.855	5.627	-0.437	1.00	0.00
ATOM 1225	2HD1	LEU A	84	143.154	4.235	-1.261	1.00	0.00
ATOM 1226	3HD1	LEU A	84	142.111	5.368	-0.403	1.00	0.00
ATOM 1227	1HD2	LEU A	84	142.328	8.096	-2.815	1.00	0.00
ATOM 1228	2HD2	LEU A	84	143.585	7.988	-1.582	1.00	0.00
ATOM 1229	3HD2	LEU A	84	141.906	7.657	-1.159	1.00	0.00
ATOM 1230	N	LYS A	85	142.820	4.791	-5.936	1.00	0.00
ATOM 1231	CA	LYS A	85	141.638	4.625	-6.773	1.00	0.00
ATOM 1232	C	LYS A	85	141.346	3.149	-7.023	1.00	0.00
ATOM 1233	O	LYS A	85	140.199	2.762	-7.245	1.00	0.00
ATOM 1234	CB	LYS A	85	141.824	5.353	-8.106	1.00	0.00
ATOM 1235	CG	LYS A	85	142.964	4.800	-8.947	1.00	0.00
ATOM 1236	CD	LYS A	85	143.695	5.905	-9.691	1.00	0.00
ATOM 1237	CE	LYS A	85	144.591	5.343	-10.783	1.00	0.00
ATOM 1238	NZ	LYS A	85	143.805	4.844	-11.945	1.00	0.00
ATOM 1239	H	LYS A	85	143.610	5.237	-6.307	1.00	0.00
ATOM 1240	HA	LYS A	85	140.799	5.061	-6.250	1.00	0.00
ATOM 1241	1HB	LYS A	85	140.911	5.273	-8.677	1.00	0.00
ATOM 1242	2HB	LYS A	85	142.025	6.396	-7.908	1.00	0.00
ATOM 1243	1HG	LYS A	85	143.662	4.292	-8.299	1.00	0.00
ATOM 1244	2HG	LYS A	85	142.560	4.099	-9.664	1.00	0.00
ATOM 1245	1HD	LYS A	85	142.967	6.564	-10.142	1.00	0.00
ATOM 1246	2HD	LYS A	85	144.301	6.459	-8.990	1.00	0.00

ATOM 1247	1HE	LYS A	85	145.258	6.122	-11.119	1.00	0.00
ATOM 1248	2HE	LYS A	85	145.168	4.528	-10.372	1.00	0.00
ATOM 1249	1HZ	LYS A	85	143.592	3.833	-11.823	1.00	0.00
ATOM 1250	2HZ	LYS A	85	144.347	4.968	-12.823	1.00	0.00
ATOM 1251	3HZ	LYS A	85	142.911	5.369	-12.024	1.00	0.00
ATOM 1252	N	SER A	86	142.391	2.327	-6.987	1.00	0.00
ATOM 1253	CA	SER A	86	142.245	0.893	-7.211	1.00	0.00
ATOM 1254	C	SER A	86	142.174	0.138	-5.887	1.00	0.00
ATOM 1255	O	SER A	86	142.631	-1.000	-5.785	1.00	0.00
ATOM 1256	CB	SER A	86	143.408	0.365	-8.051	1.00	0.00
ATOM 1257	OG	SER A	86	143.446	0.993	-9.321	1.00	0.00
ATOM 1258	H	SER A	86	143.283	2.693	-6.806	1.00	0.00
ATOM 1259	HA	SER A	86	141.322	0.736	-7.749	1.00	0.00
ATOM 1260	1HB	SER A	86	144.338	0.562	-7.539	1.00	0.00
ATOM 1261	2HB	SER A	86	143.293	-0.700	-8.192	1.00	0.00
ATOM 1262	HG	SER A	86	144.345	1.272	-9.514	1.00	0.00
ATOM 1263	N	CYS A	87	141.598	0.779	-4.874	1.00	0.00
ATOM 1264	CA	CYS A	87	141.467	0.167	-3.557	1.00	0.00
ATOM 1265	C	CYS A	87	139.999	-0.033	-3.194	1.00	0.00
ATOM 1266	O	CYS A	87	139.129	0.702	-3.662	1.00	0.00
ATOM 1267	CB	CYS A	87	142.154	1.032	-2.499	1.00	0.00
ATOM 1268	SG	CYS A	87	143.960	0.965	-2.548	1.00	0.00
ATOM 1269	H	CYS A	87	141.252	1.685	-5.016	1.00	0.00
ATOM 1270	HA	CYS A	87	141.952	-0.798	-3.590	1.00	0.00
ATOM 1271	1HB	CYS A	87	141.861	2.062	-2.641	1.00	0.00
ATOM 1272	2HB	CYS A	87	141.839	0.705	-1.518	1.00	0.00
ATOM 1273	HG	CYS A	87	144.296	1.482	-1.813	1.00	0.00
ATOM 1274	N	ARG A	88	139.731	-1.030	-2.358	1.00	0.00
ATOM 1275	CA	ARG A	88	138.367	-1.324	-1.933	1.00	0.00

ATOM 1276	C	ARG A	88	138.296	-1.513	-0.419	1.00	0.00
ATOM 1277	O	ARG A	88	139.226	-2.038	0.193	1.00	0.00
ATOM 1278	CB	ARG A	88	137.849	-2.577	-2.639	1.00	0.00
ATOM 1279	CG	ARG A	88	137.403	-2.328	-4.072	1.00	0.00
ATOM 1280	CD	ARG A	88	136.086	-3.025	-4.377	1.00	0.00
ATOM 1281	NE	ARG A	88	135.450	-2.490	-5.578	1.00	0.00
ATOM 1282	CZ	ARG A	88	134.428	-3.076	-6.198	1.00	0.00
ATOM 1283	NH1	ARG A	88	133.924	-4.214	-5.735	1.00	0.00
ATOM 1284	NH2	ARG A	88	133.907	-2.523	-7.285	1.00	0.00
ATOM 1285	H	ARG A	88	140.466	-1.580	-2.018	1.00	0.00
ATOM 1286	HA	ARG A	88	137.747	-0.484	-2.209	1.00	0.00
ATOM 1287	1HB	ARG A	88	138.635	-3.319	-2.655	1.00	0.00
ATOM 1288	2HB	ARG A	88	137.008	-2.969	-2.085	1.00	0.00
ATOM 1289	1HG	ARG A	88	137.278	-1.266	-4.219	1.00	0.00
ATOM 1290	2HG	ARG A	88	138.161	-2.700	-4.744	1.00	0.00
ATOM 1291	1HD	ARG A	88	136.276	-4.079	-4.521	1.00	0.00
ATOM 1292	2HD	ARG A	88	135.420	-2.892	-3.537	1.00	0.00
ATOM 1293	HE	ARG A	88	135.801	-1.651	-5.942	1.00	0.00
ATOM 1294	1HH1	ARG A	88	134.312	-4.637	-4.916	1.00	0.00
ATOM 1295	2HH1	ARG A	88	133.157	-4.649	-6.207	1.00	0.00
ATOM 1296	1HH2	ARG A	88	134.282	-1.665	-7.639	1.00	0.00
ATOM 1297	2HH2	ARG A	88	133.140	-2.962	-7.752	1.00	0.00
ATOM 1298	N	PRO A	89	137.185	-1.087	0.210	1.00	0.00
ATOM 1299	CA	PRO A	89	137.002	-1.213	1.660	1.00	0.00
ATOM 1300	C	PRO A	89	137.199	-2.645	2.145	1.00	0.00
ATOM 1301	O	PRO A	89	136.595	-3.579	1.617	1.00	0.00
ATOM 1302	CB	PRO A	89	135.553	-0.771	1.878	1.00	0.00
ATOM 1303	CG	PRO A	89	135.241	0.104	0.715	1.00	0.00
ATOM 1304	CD	PRO A	89	136.025	-0.449	-0.441	1.00	0.00

ATOM 1305	HA	PRO A	89	137.666	-0.557	2.201	1.00	0.00
ATOM 1306	1HB	PRO A	89	134.909	-1.640	1.904	1.00	0.00
ATOM 1307	2HB	PRO A	89	135.475	-0.232	2.810	1.00	0.00
ATOM 1308	1HG	PRO A	89	134.183	0.069	0.502	1.00	0.00
ATOM 1309	2HG	PRO A	89	135.548	1.118	0.926	1.00	0.00
ATOM 1310	1HD	PRO A	89	135.439	-1.176	-0.982	1.00	0.00
ATOM 1311	2HD	PRO A	89	136.342	0.348	-1.098	1.00	0.00
ATOM 1312	N	ASP A	90	138.048	-2.811	3.153	1.00	0.00
ATOM 1313	CA	ASP A	90	138.324	-4.130	3.710	1.00	0.00
ATOM 1314	C	ASP A	90	137.589	-4.329	5.031	1.00	0.00
ATOM 1315	O	ASP A	90	137.948	-3.734	6.048	1.00	0.00
ATOM 1316	CB	ASP A	90	139.829	-4.316	3.918	1.00	0.00
ATOM 1317	CG	ASP A	90	140.229	-5.777	3.972	1.00	0.00
ATOM 1318	OD1	ASP A	90	139.989	-6.496	2.979	1.00	0.00
ATOM 1319	OD2	ASP A	90	140.783	-6.203	5.008	1.00	0.00
ATOM 1320	H	ASP A	90	138.500	-2.029	3.532	1.00	0.00
ATOM 1321	HA	ASP A	90	137.974	-4.868	3.004	1.00	0.00
ATOM 1322	1HB	ASP A	90	140.358	-3.847	3.102	1.00	0.00
ATOM 1323	2HB	ASP A	90	140.118	-3.847	4.846	1.00	0.00
ATOM 1324	N	SER A	91	136.559	-5.167	5.010	1.00	0.00
ATOM 1325	CA	SER A	91	135.772	-5.443	6.208	1.00	0.00
ATOM 1326	C	SER A	91	136.212	-6.752	6.856	1.00	0.00
ATOM 1327	O	SER A	91	135.407	-7.454	7.468	1.00	0.00
ATOM 1328	CB	SER A	91	134.284	-5.508	5.861	1.00	0.00
ATOM 1329	OG	SER A	91	133.486	-5.094	6.957	1.00	0.00
ATOM 1330	H	SER A	91	136.321	-5.611	4.170	1.00	0.00
ATOM 1331	HA	SER A	91	135.936	-4.637	6.905	1.00	0.00
ATOM 1332	1HB	SER A	91	134.083	-4.859	5.021	1.00	0.00
ATOM 1333	2HB	SER A	91	134.020	-6.523	5.603	1.00	0.00

ATOM 1334	HG	SER A	91	133.511	-4.137	7.028	1.00	0.00
ATOM 1335	N	ARG A	92	137.494	-7.074	6.718	1.00	0.00
ATOM 1336	CA	ARG A	92	138.040	-8.299	7.291	1.00	0.00
ATOM 1337	C	ARG A	92	137.997	-8.255	8.815	1.00	0.00
ATOM 1338	O	ARG A	92	137.778	-9.274	9.469	1.00	0.00
ATOM 1339	CB	ARG A	92	139.479	-8.511	6.816	1.00	0.00
ATOM 1340	CG	ARG A	92	139.579	-9.239	5.486	1.00	0.00
ATOM 1341	CD	ARG A	92	139.435	-10.743	5.661	1.00	0.00
ATOM 1342	NE	ARG A	92	138.046	-11.178	5.537	1.00	0.00
ATOM 1343	CZ	ARG A	92	137.404	-11.285	4.375	1.00	0.00
ATOM 1344	NH1	ARG A	92	138.022	-10.991	3.239	1.00	0.00
ATOM 1345	NH2	ARG A	92	136.142	-11.689	4.352	1.00	0.00
ATOM 1346	H	ARG A	92	138.087	-6.473	6.220	1.00	0.00
ATOM 1347	HA	ARG A	92	137.433	-9.123	6.950	1.00	0.00
ATOM 1348	1HB	ARG A	92	139.957	-7.548	6.711	1.00	0.00
ATOM 1349	2HB	ARG A	92	140.010	-9.088	7.559	1.00	0.00
ATOM 1350	1HG	ARG A	92	138.794	-8.887	4.833	1.00	0.00
ATOM 1351	2HG	ARG A	92	140.541	-9.027	5.042	1.00	0.00
ATOM 1352	1HD	ARG A	92	140.026	-11.239	4.907	1.00	0.00
ATOM 1353	2HD	ARG A	92	139.802	-11.014	6.641	1.00	0.00
ATOM 1354	HE	ARG A	92	137.567	-11.402	6.361	1.00	0.00
ATOM 1355	1HH1	ARG A	92	138.974	-10.686	3.249	1.00	0.00
ATOM 1356	2HH1	ARG A	92	137.534	-11.073	2.369	1.00	0.00
ATOM 1357	1HH2	ARG A	92	135.672	-11.912	5.206	1.00	0.00
ATOM 1358	2HH2	ARG A	92	135.659	-11.769	3.479	1.00	0.00
ATOM 1359	N	PHE A	93	138.207	-7.068	9.375	1.00	0.00
ATOM 1360	CA	PHE A	93	138.193	-6.892	10.823	1.00	0.00
ATOM 1361	C	PHE A	93	137.029	-6.005	11.254	1.00	0.00
ATOM 1362	O	PHE A	93	137.101	-5.323	12.276	1.00	0.00

ATOM 1363	CB	PHE A	93	139.514	-6.284	11.297	1.00	0.00
ATOM 1364	CG	PHE A	93	140.693	-7.196	11.114	1.00	0.00
ATOM 1365	CD1	PHE A	93	141.421	-7.636	12.209	1.00	0.00
ATOM 1366	CD2	PHE A	93	141.076	-7.612	9.850	1.00	0.00
ATOM 1367	CE1	PHE A	93	142.507	-8.475	12.045	1.00	0.00
ATOM 1368	CE2	PHE A	93	142.160	-8.451	9.679	1.00	0.00
ATOM 1369	CZ	PHE A	93	142.877	-8.883	10.778	1.00	0.00
ATOM 1370	H	PHE A	93	138.377	-6.292	8.801	1.00	0.00
ATOM 1371	HA	PHE A	93	138.073	-7.866	11.273	1.00	0.00
ATOM 1372	1HB	PHE A	93	139.706	-5.379	10.741	1.00	0.00
ATOM 1373	2HB	PHE A	93	139.435	-6.046	12.348	1.00	0.00
ATOM 1374	HD1	PHE A	93	141.132	-7.318	13.200	1.00	0.00
ATOM 1375	HD2	PHE A	93	140.516	-7.276	8.990	1.00	0.00
ATOM 1376	HE1	PHE A	93	143.066	-8.811	12.906	1.00	0.00
ATOM 1377	HE2	PHE A	93	142.449	-8.769	8.688	1.00	0.00
ATOM 1378	HZ	PHE A	93	143.726	-9.538	10.648	1.00	0.00
ATOM 1379	N	ALA A	94	135.955	-6.018	10.469	1.00	0.00
ATOM 1380	CA	ALA A	94	134.778	-5.215	10.774	1.00	0.00
ATOM 1381	C	ALA A	94	133.672	-6.072	11.385	1.00	0.00
ATOM 1382	O	ALA A	94	133.228	-7.050	10.784	1.00	0.00
ATOM 1383	CB	ALA A	94	134.277	-4.516	9.517	1.00	0.00
ATOM 1384	H	ALA A	94	135.955	-6.583	9.668	1.00	0.00
ATOM 1385	HA	ALA A	94	135.066	-4.457	11.487	1.00	0.00
ATOM 1386	1HB	ALA A	94	134.221	-3.453	9.696	1.00	0.00
ATOM 1387	2HB	ALA A	94	133.296	-4.890	9.260	1.00	0.00
ATOM 1388	3HB	ALA A	94	134.960	-4.710	8.702	1.00	0.00
ATOM 1389	N	SER A	95	133.233	-5.697	12.581	1.00	0.00
ATOM 1390	CA	SER A	95	132.179	-6.430	13.272	1.00	0.00
ATOM 1391	C	SER A	95	130.821	-5.774	13.045	1.00	0.00

ATOM 1392	O	SER A	95	130.572	-4.661	13.509	1.00	0.00
ATOM 1393	CB	SER A	95	132.478	-6.505	14.770	1.00	0.00
ATOM 1394	OG	SER A	95	133.847	-6.787	15.003	1.00	0.00
ATOM 1395	H	SER A	95	133.626	-4.908	13.010	1.00	0.00
ATOM 1396	HA	SER A	95	132.153	-7.431	12.869	1.00	0.00
ATOM 1397	1HB	SER A	95	132.235	-5.559	15.232	1.00	0.00
ATOM 1398	2HB	SER A	95	131.881	-7.287	15.216	1.00	0.00
ATOM 1399	HG	SER A	95	134.085	-7.606	14.563	1.00	0.00
ATOM 1400	N	LEU A	96	129.945	-6.471	12.329	1.00	0.00
ATOM 1401	CA	LEU A	96	128.611	-5.955	12.040	1.00	0.00
ATOM 1402	C	LEU A	96	127.536	-6.887	12.586	1.00	0.00
ATOM 1403	O	LEU A	96	126.547	-6.439	13.167	1.00	0.00
ATOM 1404	CB	LEU A	96	128.427	-5.773	10.532	1.00	0.00
ATOM 1405	CG	LEU A	96	128.880	-4.419	9.983	1.00	0.00
ATOM 1406	CD1	LEU A	96	129.430	-4.572	8.573	1.00	0.00
ATOM 1407	CD2	LEU A	96	127.729	-3.425	10.003	1.00	0.00
ATOM 1408	H	LEU A	96	130.200	-7.352	11.986	1.00	0.00
ATOM 1409	HA	LEU A	96	128.515	-4.996	12.523	1.00	0.00
ATOM 1410	1HB	LEU A	96	128.984	-6.549	10.027	1.00	0.00
ATOM 1411	2HB	LEU A	96	127.379	-5.897	10.300	1.00	0.00
ATOM 1412	HG	LEU A	96	129.670	-4.030	10.609	1.00	0.00
ATOM 1413	1HD1	LEU A	96	129.514	-3.599	8.112	1.00	0.00
ATOM 1414	2HD1	LEU A	96	128.762	-5.190	7.991	1.00	0.00
ATOM 1415	3HD1	LEU A	96	130.404	-5.036	8.615	1.00	0.00
ATOM 1416	1HD2	LEU A	96	127.699	-2.929	10.962	1.00	0.00
ATOM 1417	2HD2	LEU A	96	126.798	-3.948	9.840	1.00	0.00
ATOM 1418	3HD2	LEU A	96	127.872	-2.692	9.223	1.00	0.00
ATOM 1419	N	GLN A	97	127.738	-8.185	12.396	1.00	0.00
ATOM 1420	CA	GLN A	97	126.788	-9.186	12.869	1.00	0.00

ATOM 1421	C	GLN A	97	127.263	-10.596	12.518	1.00	0.00
ATOM 1422	O	GLN A	97	127.494	-11.419	13.405	1.00	0.00
ATOM 1423	CB	GLN A	97	125.402	-8.933	12.267	1.00	0.00
ATOM 1424	CG	GLN A	97	124.342	-8.594	13.303	1.00	0.00
ATOM 1425	CD	GLN A	97	123.428	-7.470	12.856	1.00	0.00
ATOM 1426	OE1	GLN A	97	123.886	-6.454	12.332	1.00	0.00
ATOM 1427	NE2	GLN A	97	122.129	-7.646	13.061	1.00	0.00
ATOM 1428	H	GLN A	97	128.546	-8.476	11.927	1.00	0.00
ATOM 1429	HA	GLN A	97	126.724	-9.099	13.943	1.00	0.00
ATOM 1430	1HB	GLN A	97	125.470	-8.109	11.572	1.00	0.00
ATOM 1431	2HB	GLN A	97	125.085	-9.817	11.734	1.00	0.00
ATOM 1432	1HG	GLN A	97	123.742	-9.473	13.485	1.00	0.00
ATOM 1433	2HG	GLN A	97	124.833	-8.298	14.217	1.00	0.00
ATOM 1434	1HE2	GLN A	97	121.836	-8.481	13.484	1.00	0.00
ATOM 1435	2HE2	GLN A	97	121.515	-6.935	12.782	1.00	0.00
ATOM 1436	N	PRO A	98	127.412	-10.893	11.216	1.00	0.00
ATOM 1437	CA	PRO A	98	127.860	-12.212	10.755	1.00	0.00
ATOM 1438	C	PRO A	98	129.343	-12.446	11.021	1.00	0.00
ATOM 1439	O	PRO A	98	130.147	-11.514	10.978	1.00	0.00
ATOM 1440	CB	PRO A	98	127.586	-12.170	9.252	1.00	0.00
ATOM 1441	CG	PRO A	98	127.666	-10.727	8.894	1.00	0.00
ATOM 1442	CD	PRO A	98	127.157	-9.972	10.092	1.00	0.00
ATOM 1443	HA	PRO A	98	127.285	-13.006	11.208	1.00	0.00
ATOM 1444	1HB	PRO A	98	128.334	-12.751	8.731	1.00	0.00
ATOM 1445	2HB	PRO A	98	126.605	-12.573	9.050	1.00	0.00
ATOM 1446	1HG	PRO A	98	128.691	-10.457	8.689	1.00	0.00
ATOM 1447	2HG	PRO A	98	127.045	-10.527	8.034	1.00	0.00
ATOM 1448	1HD	PRO A	98	127.704	-9.050	10.216	1.00	0.00
ATOM 1449	2HD	PRO A	98	126.100	-9.773	9.990	1.00	0.00

ATOM 1450	N	SER A	99	129.699	-13.697	11.297	1.00	0.00
ATOM 1451	CA	SER A	99	131.085	-14.054	11.570	1.00	0.00
ATOM 1452	C	SER A	99	131.356	-15.507	11.195	1.00	0.00
ATOM 1453	O	SER A	99	130.447	-16.337	11.190	1.00	0.00
ATOM 1454	CB	SER A	99	131.412	-13.827	13.046	1.00	0.00
ATOM 1455	OG	SER A	99	130.829	-14.832	13.858	1.00	0.00
ATOM 1456	H	SER A	99	129.012	-14.396	11.317	1.00	0.00
ATOM 1457	HA	SER A	99	131.717	-13.416	10.969	1.00	0.00
ATOM 1458	1HB	SER A	99	132.483	-13.848	13.185	1.00	0.00
ATOM 1459	2HB	SER A	99	131.028	-12.865	13.354	1.00	0.00
ATOM 1460	HG	SER A	99	130.852	-14.555	14.778	1.00	0.00
ATOM 1461	N	GLY A	100	132.612	-15.809	10.882	1.00	0.00
ATOM 1462	CA	GLY A	100	132.979	-17.163	10.510	1.00	0.00
ATOM 1463	C	GLY A	100	134.442	-17.462	10.777	1.00	0.00
ATOM 1464	O	GLY A	100	135.251	-17.486	9.850	1.00	0.00
ATOM 1465	H	GLY A	100	133.294	-15.106	10.903	1.00	0.00
ATOM 1466	1HA	GLY A	100	132.372	-17.856	11.074	1.00	0.00
ATOM 1467	2HA	GLY A	100	132.780	-17.301	9.458	1.00	0.00
ATOM 1468	N	PRO A	101	134.815	-17.697	12.047	1.00	0.00
ATOM 1469	CA	PRO A	101	136.202	-17.996	12.419	1.00	0.00
ATOM 1470	C	PRO A	101	136.787	-19.140	11.599	1.00	0.00
ATOM 1471	O	PRO A	101	136.061	-20.022	11.139	1.00	0.00
ATOM 1472	CB	PRO A	101	136.097	-18.395	13.893	1.00	0.00
ATOM 1473	CG	PRO A	101	134.864	-17.718	14.383	1.00	0.00
ATOM 1474	CD	PRO A	101	133.917	-17.688	13.216	1.00	0.00
ATOM 1475	HA	PRO A	101	136.834	-17.126	12.323	1.00	0.00
ATOM 1476	1HB	PRO A	101	136.017	-19.470	13.973	1.00	0.00
ATOM 1477	2HB	PRO A	101	136.972	-18.053	14.425	1.00	0.00
ATOM 1478	1HG	PRO A	101	134.436	-18.279	15.200	1.00	0.00

ATOM 1479	2HG	PRO A 101	135.099	-16.712	14.701	1.00	0.00
ATOM 1480	1HD	PRO A 101	133.284	-18.563	13.222	1.00	0.00
ATOM 1481	2HD	PRO A 101	133.321	-16.788	13.237	1.00	0.00
ATOM 1482	N	SER A 102	138.103	-19.118	11.418	1.00	0.00
ATOM 1483	CA	SER A 102	138.787	-20.154	10.651	1.00	0.00
ATOM 1484	C	SER A 102	139.818	-20.878	11.512	1.00	0.00
ATOM 1485	O	SER A 102	140.315	-20.329	12.495	1.00	0.00
ATOM 1486	CB	SER A 102	139.468	-19.545	9.425	1.00	0.00
ATOM 1487	OG	SER A 102	138.523	-19.241	8.414	1.00	0.00
ATOM 1488	H	SER A 102	138.628	-18.389	11.808	1.00	0.00
ATOM 1489	HA	SER A 102	138.046	-20.867	10.322	1.00	0.00
ATOM 1490	1HB	SER A 102	139.974	-18.635	9.712	1.00	0.00
ATOM 1491	2HB	SER A 102	140.187	-20.247	9.029	1.00	0.00
ATOM 1492	HG	SER A 102	137.839	-18.673	8.775	1.00	0.00
ATOM 1493	N	SER A 103	140.134	-22.112	11.136	1.00	0.00
ATOM 1494	CA	SER A 103	141.105	-22.911	11.874	1.00	0.00
ATOM 1495	C	SER A 103	141.842	-23.868	10.942	1.00	0.00
ATOM 1496	O	SER A 103	142.183	-24.986	11.329	1.00	0.00
ATOM 1497	CB	SER A 103	140.411	-23.698	12.987	1.00	0.00
ATOM 1498	OG	SER A 103	140.321	-22.930	14.174	1.00	0.00
ATOM 1499	H	SER A 103	139.703	-22.495	10.344	1.00	0.00
ATOM 1500	HA	SER A 103	141.822	-22.236	12.316	1.00	0.00
ATOM 1501	1HB	SER A 103	139.413	-23.963	12.668	1.00	0.00
ATOM 1502	2HB	SER A 103	140.973	-24.596	13.195	1.00	0.00
ATOM 1503	HG	SER A 103	140.572	-23.472	14.925	1.00	0.00
ATOM 1504	N	GLY A 104	142.085	-23.422	9.714	1.00	0.00
ATOM 1505	CA	GLY A 104	142.779	-24.252	8.748	1.00	0.00
ATOM 1506	C	GLY A 104	142.212	-24.111	7.349	1.00	0.00
ATOM 1507	O	GLY A 104	141.005	-23.819	7.224	1.00	0.00

ATOM 1508 OXT GLY A 104 142.976 -24.292 6.377 1.00 0.00
ATOM 1509 H GLY A 104 141.789 -22.522 9.463 1.00 0.00
ATOM 1510 1HA GLY A 104 143.822 -23.971 8.732 1.00 0.00
ATOM 1511 2HA GLY A 104 142.700 -25.285 9.054 1.00 0.00
TER 1512 GLY A 104
ENDMDL

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ATOM 1 N GLY A 1 122.048 -9.408 -2.078 1.00 0.00
ATOM 2 CA GLY A 1 123.433 -8.870 -1.967 1.00 0.00
ATOM 3 C GLY A 1 124.484 -9.960 -2.023 1.00 0.00
ATOM 4 O GLY A 1 125.519 -9.869 -1.362 1.00 0.00
ATOM 5 1H GLY A 1 121.925 -10.215 -1.433 1.00 0.00
ATOM 6 2H GLY A 1 121.865 -9.725 -3.051 1.00 0.00
ATOM 7 3H GLY A 1 121.357 -8.671 -1.830 1.00 0.00
ATOM 8 1HA GLY A 1 123.604 -8.177 -2.777 1.00 0.00
ATOM 9 2HA GLY A 1 123.527 -8.342 -1.029 1.00 0.00
ATOM 10 N SER A 2 124.220 -10.995 -2.815 1.00 0.00
ATOM 11 CA SER A 2 125.152 -12.107 -2.955 1.00 0.00
ATOM 12 C SER A 2 126.245 -11.777 -3.965 1.00 0.00
ATOM 13 O SER A 2 127.392 -12.199 -3.814 1.00 0.00
ATOM 14 CB SER A 2 124.407 -13.372 -3.387 1.00 0.00
ATOM 15 OG SER A 2 123.438 -13.747 -2.424 1.00 0.00
ATOM 16 H SER A 2 123.378 -11.010 -3.315 1.00 0.00
ATOM 17 HA SER A 2 125.608 -12.281 -1.992 1.00 0.00
ATOM 18 1HB SER A 2 123.909 -13.191 -4.327 1.00 0.00
ATOM 19 2HB SER A 2 125.113 -14.181 -3.503 1.00 0.00
ATOM 20 HG SER A 2 123.549 -14.675 -2.202 1.00 0.00

ATOM 21	N	SER A	3	125.882	-11.020	-4.995	1.00	0.00
ATOM 22	CA	SER A	3	126.833	-10.632	-6.031	1.00	0.00
ATOM 23	C	SER A	3	126.285	-9.482	-6.869	1.00	0.00
ATOM 24	O	SER A	3	125.673	-9.699	-7.915	1.00	0.00
ATOM 25	CB	SER A	3	127.155	-11.826	-6.930	1.00	0.00
ATOM 26	OG	SER A	3	128.105	-11.477	-7.922	1.00	0.00
ATOM 27	H	SER A	3	124.954	-10.714	-5.061	1.00	0.00
ATOM 28	HA	SER A	3	127.739	-10.306	-5.543	1.00	0.00
ATOM 29	1HB	SER A	3	127.558	-12.628	-6.331	1.00	0.00
ATOM 30	2HB	SER A	3	126.250	-12.161	-7.418	1.00	0.00
ATOM 31	HG	SER A	3	128.611	-12.255	-8.168	1.00	0.00
ATOM 32	N	GLY A	4	126.509	-8.257	-6.404	1.00	0.00
ATOM 33	CA	GLY A	4	126.031	-7.092	-7.123	1.00	0.00
ATOM 34	C	GLY A	4	126.690	-5.809	-6.654	1.00	0.00
ATOM 35	O	GLY A	4	127.332	-5.781	-5.604	1.00	0.00
ATOM 36	H	GLY A	4	127.003	-8.144	-5.565	1.00	0.00
ATOM 37	1HA	GLY A	4	126.235	-7.224	-8.176	1.00	0.00
ATOM 38	2HA	GLY A	4	124.964	-7.008	-6.982	1.00	0.00
ATOM 39	N	SER A	5	126.531	-4.745	-7.434	1.00	0.00
ATOM 40	CA	SER A	5	127.115	-3.453	-7.094	1.00	0.00
ATOM 41	C	SER A	5	126.123	-2.323	-7.352	1.00	0.00
ATOM 42	O	SER A	5	125.253	-2.434	-8.216	1.00	0.00
ATOM 43	CB	SER A	5	128.394	-3.220	-7.900	1.00	0.00
ATOM 44	OG	SER A	5	128.991	-4.449	-8.277	1.00	0.00
ATOM 45	H	SER A	5	126.008	-4.831	-8.259	1.00	0.00
ATOM 46	HA	SER A	5	127.360	-3.467	-6.043	1.00	0.00
ATOM 47	1HB	SER A	5	128.158	-2.661	-8.793	1.00	0.00
ATOM 48	2HB	SER A	5	129.097	-2.660	-7.301	1.00	0.00
ATOM 49	HG	SER A	5	129.599	-4.299	-9.004	1.00	0.00

ATOM 50	N	SER A	6	126.262	-1.238	-6.599	1.00	0.00
ATOM 51	CA	SER A	6	125.378	-0.087	-6.747	1.00	0.00
ATOM 52	C	SER A	6	126.092	1.202	-6.352	1.00	0.00
ATOM 53	O	SER A	6	126.055	2.192	-7.082	1.00	0.00
ATOM 54	CB	SER A	6	124.121	-0.271	-5.895	1.00	0.00
ATOM 55	OG	SER A	6	123.191	0.774	-6.124	1.00	0.00
ATOM 56	H	SER A	6	126.975	-1.210	-5.927	1.00	0.00
ATOM 57	HA	SER A	6	125.090	-0.022	-7.786	1.00	0.00
ATOM 58	1HB	SER A	6	123.654	-1.211	-6.143	1.00	0.00
ATOM 59	2HB	SER A	6	124.394	-0.269	-4.850	1.00	0.00
ATOM 60	HG	SER A	6	122.418	0.643	-5.570	1.00	0.00
ATOM 61	N	GLY A	7	126.738	1.181	-5.192	1.00	0.00
ATOM 62	CA	GLY A	7	127.452	2.354	-4.720	1.00	0.00
ATOM 63	C	GLY A	7	128.890	2.390	-5.199	1.00	0.00
ATOM 64	O	GLY A	7	129.155	2.279	-6.396	1.00	0.00
ATOM 65	H	GLY A	7	126.733	0.363	-4.652	1.00	0.00
ATOM 66	1HA	GLY A	7	126.943	3.238	-5.074	1.00	0.00
ATOM 67	2HA	GLY A	7	127.444	2.356	-3.640	1.00	0.00
ATOM 68	N	LEU A	8	129.820	2.548	-4.262	1.00	0.00
ATOM 69	CA	LEU A	8	131.240	2.602	-4.592	1.00	0.00
ATOM 70	C	LEU A	8	131.555	3.842	-5.423	1.00	0.00
ATOM 71	O	LEU A	8	132.462	3.829	-6.255	1.00	0.00
ATOM 72	CB	LEU A	8	131.660	1.343	-5.354	1.00	0.00
ATOM 73	CG	LEU A	8	131.271	0.023	-4.684	1.00	0.00
ATOM 74	CD1	LEU A	8	131.002	-1.047	-5.732	1.00	0.00
ATOM 75	CD2	LEU A	8	132.363	-0.430	-3.727	1.00	0.00
ATOM 76	H	LEU A	8	129.545	2.634	-3.326	1.00	0.00
ATOM 77	HA	LEU A	8	131.793	2.655	-3.667	1.00	0.00
ATOM 78	1HB	LEU A	8	131.208	1.372	-6.334	1.00	0.00

ATOM 79	2HB	LEU A	8	132.734	1.359	-5.469	1.00	0.00
ATOM 80	HG	LEU A	8	130.364	0.168	-4.116	1.00	0.00
ATOM 81	1HD1	LEU A	8	130.300	-1.767	-5.338	1.00	0.00
ATOM 82	2HD1	LEU A	8	131.926	-1.546	-5.983	1.00	0.00
ATOM 83	3HD1	LEU A	8	130.589	-0.588	-6.618	1.00	0.00
ATOM 84	1HD2	LEU A	8	131.912	-0.895	-2.862	1.00	0.00
ATOM 85	2HD2	LEU A	8	132.944	0.425	-3.413	1.00	0.00
ATOM 86	3HD2	LEU A	8	133.007	-1.140	-4.224	1.00	0.00
ATOM 87	N	ALA A	9	130.801	4.910	-5.189	1.00	0.00
ATOM 88	CA	ALA A	9	131.001	6.157	-5.914	1.00	0.00
ATOM 89	C	ALA A	9	130.469	7.346	-5.120	1.00	0.00
ATOM 90	O	ALA A	9	129.258	7.537	-5.006	1.00	0.00
ATOM 91	CB	ALA A	9	130.329	6.088	-7.278	1.00	0.00
ATOM 92	H	ALA A	9	130.094	4.858	-4.513	1.00	0.00
ATOM 93	HA	ALA A	9	132.062	6.285	-6.068	1.00	0.00
ATOM 94	1HB	ALA A	9	130.944	6.593	-8.008	1.00	0.00
ATOM 95	2HB	ALA A	9	129.363	6.567	-7.227	1.00	0.00
ATOM 96	3HB	ALA A	9	130.204	5.055	-7.566	1.00	0.00
ATOM 97	N	MET A	10	131.383	8.140	-4.573	1.00	0.00
ATOM 98	CA	MET A	10	131.008	9.311	-3.790	1.00	0.00
ATOM 99	C	MET A	10	131.358	10.598	-4.537	1.00	0.00
ATOM 100	O	MET A	10	132.443	10.715	-5.107	1.00	0.00
ATOM 101	CB	MET A	10	131.713	9.287	-2.432	1.00	0.00
ATOM 102	CG	MET A	10	130.816	9.682	-1.271	1.00	0.00
ATOM 103	SD	MET A	10	131.725	9.877	0.275	1.00	0.00
ATOM 104	CE	MET A	10	130.949	8.618	1.285	1.00	0.00
ATOM 105	H	MET A	10	132.333	7.936	-4.700	1.00	0.00
ATOM 106	HA	MET A	10	129.941	9.276	-3.633	1.00	0.00
ATOM 107	1HB	MET A	10	132.082	8.288	-2.249	1.00	0.00

ATOM 108	2HB	MET A	10	132.550	9.969	-2.460	1.00	0.00
ATOM 109	1HG	MET A	10	130.334	10.619	-1.508	1.00	0.00
ATOM 110	2HG	MET A	10	130.065	8.917	-1.137	1.00	0.00
ATOM 111	1HE	MET A	10	131.556	8.432	2.159	1.00	0.00
ATOM 112	2HE	MET A	10	130.851	7.708	0.715	1.00	0.00
ATOM 113	3HE	MET A	10	129.971	8.957	1.594	1.00	0.00
ATOM 114	N	PRO A	11	130.444	11.585	-4.545	1.00	0.00
ATOM 115	CA	PRO A	11	130.676	12.861	-5.227	1.00	0.00
ATOM 116	C	PRO A	11	131.984	13.523	-4.799	1.00	0.00
ATOM 117	O	PRO A	11	132.750	13.996	-5.638	1.00	0.00
ATOM 118	CB	PRO A	11	129.479	13.721	-4.815	1.00	0.00
ATOM 119	CG	PRO A	11	128.418	12.751	-4.428	1.00	0.00
ATOM 120	CD	PRO A	11	129.125	11.537	-3.891	1.00	0.00
ATOM 121	HA	PRO A	11	130.677	12.736	-6.301	1.00	0.00
ATOM 122	1HB	PRO A	11	129.757	14.356	-3.987	1.00	0.00
ATOM 123	2HB	PRO A	11	129.167	14.331	-5.651	1.00	0.00
ATOM 124	1HG	PRO A	11	127.791	13.183	-3.663	1.00	0.00
ATOM 125	2HG	PRO A	11	127.827	12.488	-5.293	1.00	0.00
ATOM 126	1HD	PRO A	11	129.225	11.604	-2.818	1.00	0.00
ATOM 127	2HD	PRO A	11	128.592	10.639	-4.166	1.00	0.00
ATOM 128	N	PRO A	12	132.267	13.564	-3.482	1.00	0.00
ATOM 129	CA	PRO A	12	133.497	14.170	-2.962	1.00	0.00
ATOM 130	C	PRO A	12	134.740	13.414	-3.417	1.00	0.00
ATOM 131	O	PRO A	12	135.843	13.959	-3.424	1.00	0.00
ATOM 132	CB	PRO A	12	133.343	14.075	-1.437	1.00	0.00
ATOM 133	CG	PRO A	12	131.898	13.796	-1.201	1.00	0.00
ATOM 134	CD	PRO A	12	131.429	13.024	-2.400	1.00	0.00
ATOM 135	HA	PRO A	12	133.581	15.206	-3.255	1.00	0.00
ATOM 136	1HB	PRO A	12	133.965	13.276	-1.059	1.00	0.00

ATOM 137	2HB	PRO A	12	133.641	15.010	-0.985	1.00	0.00
ATOM 138	1HG	PRO A	12	131.778	13.205	-0.305	1.00	0.00
ATOM 139	2HG	PRO A	12	131.353	14.723	-1.116	1.00	0.00
ATOM 140	1HD	PRO A	12	131.606	11.967	-2.262	1.00	0.00
ATOM 141	2HD	PRO A	12	130.384	13.214	-2.586	1.00	0.00
ATOM 142	N	GLY A	13	134.552	12.153	-3.795	1.00	0.00
ATOM 143	CA	GLY A	13	135.667	11.340	-4.247	1.00	0.00
ATOM 144	C	GLY A	13	135.760	10.021	-3.505	1.00	0.00
ATOM 145	O	GLY A	13	135.069	9.811	-2.508	1.00	0.00
ATOM 146	H	GLY A	13	133.649	11.771	-3.768	1.00	0.00
ATOM 147	1HA	GLY A	13	135.548	11.139	-5.302	1.00	0.00
ATOM 148	2HA	GLY A	13	136.583	11.889	-4.098	1.00	0.00
ATOM 149	N	ASN A	14	136.617	9.129	-3.994	1.00	0.00
ATOM 150	CA	ASN A	14	136.800	7.824	-3.370	1.00	0.00
ATOM 151	C	ASN A	14	135.497	7.030	-3.376	1.00	0.00
ATOM 152	O	ASN A	14	134.480	7.493	-3.893	1.00	0.00
ATOM 153	CB	ASN A	14	137.305	7.985	-1.936	1.00	0.00
ATOM 154	CG	ASN A	14	138.802	8.218	-1.873	1.00	0.00
ATOM 155	OD1	ASN A	14	139.268	9.355	-1.952	1.00	0.00
ATOM 156	ND2	ASN A	14	139.563	7.139	-1.730	1.00	0.00
ATOM 157	H	ASN A	14	137.139	9.355	-4.791	1.00	0.00
ATOM 158	HA	ASN A	14	137.538	7.283	-3.944	1.00	0.00
ATOM 159	1HB	ASN A	14	136.808	8.827	-1.479	1.00	0.00
ATOM 160	2HB	ASN A	14	137.074	7.090	-1.376	1.00	0.00
ATOM 161	1HD2	ASN A	14	139.122	6.266	-1.674	1.00	0.00
ATOM 162	2HD2	ASN A	14	140.534	7.262	-1.687	1.00	0.00
ATOM 163	N	SER A	15	135.535	5.835	-2.798	1.00	0.00
ATOM 164	CA	SER A	15	134.356	4.977	-2.736	1.00	0.00
ATOM 165	C	SER A	15	133.482	5.338	-1.541	1.00	0.00

ATOM 166	O	SER A	15	132.349	5.791	-1.701	1.00	0.00
ATOM 167	CB	SER A	15	134.773	3.507	-2.654	1.00	0.00
ATOM 168	OG	SER A	15	136.026	3.369	-2.006	1.00	0.00
ATOM 169	H	SER A	15	136.375	5.521	-2.403	1.00	0.00
ATOM 170	HA	SER A	15	133.789	5.130	-3.642	1.00	0.00
ATOM 171	1HB	SER A	15	134.031	2.956	-2.096	1.00	0.00
ATOM 172	2HB	SER A	15	134.850	3.100	-3.651	1.00	0.00
ATOM 173	HG	SER A	15	136.551	2.707	-2.463	1.00	0.00
ATOM 174	N	HIS A	16	134.017	5.135	-0.341	1.00	0.00
ATOM 175	CA	HIS A	16	133.285	5.439	0.884	1.00	0.00
ATOM 176	C	HIS A	16	134.130	6.294	1.823	1.00	0.00
ATOM 177	O	HIS A	16	133.680	7.333	2.306	1.00	0.00
ATOM 178	CB	HIS A	16	132.866	4.144	1.586	1.00	0.00
ATOM 179	CG	HIS A	16	131.397	4.065	1.864	1.00	0.00
ATOM 180	ND1	HIS A	16	130.777	4.797	2.855	1.00	0.00
ATOM 181	CD2	HIS A	16	130.421	3.334	1.274	1.00	0.00
ATOM 182	CE1	HIS A	16	129.485	4.518	2.863	1.00	0.00
ATOM 183	NE2	HIS A	16	129.244	3.635	1.914	1.00	0.00
ATOM 184	H	HIS A	16	134.925	4.772	-0.277	1.00	0.00
ATOM 185	HA	HIS A	16	132.400	5.993	0.611	1.00	0.00
ATOM 186	1HB	HIS A	16	133.130	3.304	0.962	1.00	0.00
ATOM 187	2HB	HIS A	16	133.389	4.066	2.528	1.00	0.00
ATOM 188	HD1	HIS A	16	131.219	5.426	3.463	1.00	0.00
ATOM 189	HD2	HIS A	16	130.547	2.642	0.453	1.00	0.00
ATOM 190	HE1	HIS A	16	128.752	4.944	3.532	1.00	0.00
ATOM 191	HE2	HIS A	16	128.383	3.193	1.759	1.00	0.00
ATOM 192	N	GLY A	17	135.356	5.850	2.079	1.00	0.00
ATOM 193	CA	GLY A	17	136.244	6.586	2.959	1.00	0.00
ATOM 194	C	GLY A	17	137.596	5.918	3.109	1.00	0.00

ATOM 195	O	GLY A	17	137.910	5.368	4.164	1.00	0.00
ATOM 196	H	GLY A	17	135.660	5.015	1.665	1.00	0.00
ATOM 197	1HA	GLY A	17	136.387	7.579	2.560	1.00	0.00
ATOM 198	2HA	GLY A	17	135.783	6.664	3.933	1.00	0.00
ATOM 199	N	LEU A	18	138.398	5.966	2.051	1.00	0.00
ATOM 200	CA	LEU A	18	139.725	5.362	2.070	1.00	0.00
ATOM 201	C	LEU A	18	140.782	6.382	2.478	1.00	0.00
ATOM 202	O	LEU A	18	141.246	7.174	1.658	1.00	0.00
ATOM 203	CB	LEU A	18	140.064	4.782	0.695	1.00	0.00
ATOM 204	CG	LEU A	18	139.132	3.667	0.215	1.00	0.00
ATOM 205	CD1	LEU A	18	139.297	3.440	-1.279	1.00	0.00
ATOM 206	CD2	LEU A	18	139.400	2.383	0.985	1.00	0.00
ATOM 207	H	LEU A	18	138.091	6.420	1.238	1.00	0.00
ATOM 208	HA	LEU A	18	139.714	4.562	2.795	1.00	0.00
ATOM 209	1HB	LEU A	18	140.034	5.585	-0.028	1.00	0.00
ATOM 210	2HB	LEU A	18	141.069	4.389	0.730	1.00	0.00
ATOM 211	HG	LEU A	18	138.108	3.960	0.397	1.00	0.00
ATOM 212	1HD1	LEU A	18	139.976	2.615	-1.445	1.00	0.00
ATOM 213	2HD1	LEU A	18	139.697	4.332	-1.737	1.00	0.00
ATOM 214	3HD1	LEU A	18	138.337	3.210	-1.717	1.00	0.00
ATOM 215	1HD2	LEU A	18	138.819	2.382	1.896	1.00	0.00
ATOM 216	2HD2	LEU A	18	140.450	2.321	1.228	1.00	0.00
ATOM 217	3HD2	LEU A	18	139.119	1.534	0.378	1.00	0.00
ATOM 218	N	GLU A	19	141.161	6.355	3.752	1.00	0.00
ATOM 219	CA	GLU A	19	142.165	7.278	4.270	1.00	0.00
ATOM 220	C	GLU A	19	143.124	6.563	5.216	1.00	0.00
ATOM 221	O	GLU A	19	142.959	5.376	5.502	1.00	0.00
ATOM 222	CB	GLU A	19	141.490	8.443	4.996	1.00	0.00
ATOM 223	CG	GLU A	19	140.512	8.005	6.073	1.00	0.00

ATOM 224	CD	GLU A	19	140.304	9.064	7.137	1.00	0.00
ATOM 225	OE1	GLU A	19	139.864	8.709	8.251	1.00	0.00
ATOM 226	OE2	GLU A	19	140.581	10.250	6.858	1.00	0.00
ATOM 227	H	GLU A	19	140.756	5.701	4.358	1.00	0.00
ATOM 228	HA	GLU A	19	142.725	7.664	3.432	1.00	0.00
ATOM 229	1HB	GLU A	19	142.252	9.054	5.458	1.00	0.00
ATOM 230	2HB	GLU A	19	140.953	9.040	4.272	1.00	0.00
ATOM 231	1HG	GLU A	19	139.560	7.790	5.610	1.00	0.00
ATOM 232	2HG	GLU A	19	140.892	7.111	6.544	1.00	0.00
ATOM 233	N	VAL A	20	144.125	7.292	5.699	1.00	0.00
ATOM 234	CA	VAL A	20	145.110	6.726	6.613	1.00	0.00
ATOM 235	C	VAL A	20	144.444	6.188	7.875	1.00	0.00
ATOM 236	O	VAL A	20	143.639	6.874	8.504	1.00	0.00
ATOM 237	CB	VAL A	20	146.171	7.770	7.011	1.00	0.00
ATOM 238	CG1	VAL A	20	147.292	7.118	7.806	1.00	0.00
ATOM 239	CG2	VAL A	20	146.720	8.469	5.777	1.00	0.00
ATOM 240	H	VAL A	20	144.204	8.232	5.434	1.00	0.00
ATOM 241	HA	VAL A	20	145.608	5.913	6.105	1.00	0.00
ATOM 242	HB	VAL A	20	145.699	8.511	7.639	1.00	0.00
ATOM 243	1HG1	VAL A	20	147.005	7.052	8.845	1.00	0.00
ATOM 244	2HG1	VAL A	20	148.189	7.712	7.717	1.00	0.00
ATOM 245	3HG1	VAL A	20	147.478	6.126	7.421	1.00	0.00
ATOM 246	1HG2	VAL A	20	146.950	7.735	5.019	1.00	0.00
ATOM 247	2HG2	VAL A	20	147.619	9.009	6.038	1.00	0.00
ATOM 248	3HG2	VAL A	20	145.983	9.161	5.396	1.00	0.00
ATOM 249	N	GLY A	21	144.787	4.957	8.240	1.00	0.00
ATOM 250	CA	GLY A	21	144.211	4.348	9.425	1.00	0.00
ATOM 251	C	GLY A	21	143.134	3.335	9.090	1.00	0.00
ATOM 252	O	GLY A	21	142.916	2.381	9.838	1.00	0.00

ATOM 253	H	GLY A	21	145.434	4.458	7.699	1.00	0.00
ATOM 254	1HA	GLY A	21	144.997	3.853	9.978	1.00	0.00
ATOM 255	2HA	GLY A	21	143.783	5.123	10.042	1.00	0.00
ATOM 256	N	SER A	22	142.457	3.543	7.966	1.00	0.00
ATOM 257	CA	SER A	22	141.395	2.642	7.535	1.00	0.00
ATOM 258	C	SER A	22	141.962	1.487	6.716	1.00	0.00
ATOM 259	O	SER A	22	143.018	1.614	6.094	1.00	0.00
ATOM 260	CB	SER A	22	140.354	3.403	6.713	1.00	0.00
ATOM 261	OG	SER A	22	140.256	4.752	7.136	1.00	0.00
ATOM 262	H	SER A	22	142.676	4.323	7.414	1.00	0.00
ATOM 263	HA	SER A	22	140.921	2.242	8.419	1.00	0.00
ATOM 264	1HB	SER A	22	140.637	3.385	5.671	1.00	0.00
ATOM 265	2HB	SER A	22	139.389	2.931	6.832	1.00	0.00
ATOM 266	HG	SER A	22	140.225	4.786	8.094	1.00	0.00
ATOM 267	N	LEU A	23	141.255	0.363	6.718	1.00	0.00
ATOM 268	CA	LEU A	23	141.687	-0.815	5.976	1.00	0.00
ATOM 269	C	LEU A	23	141.168	-0.774	4.541	1.00	0.00
ATOM 270	O	LEU A	23	140.116	-0.197	4.268	1.00	0.00
ATOM 271	CB	LEU A	23	141.202	-2.088	6.670	1.00	0.00
ATOM 272	CG	LEU A	23	141.626	-2.231	8.132	1.00	0.00
ATOM 273	CD1	LEU A	23	140.629	-3.086	8.896	1.00	0.00
ATOM 274	CD2	LEU A	23	143.024	-2.824	8.226	1.00	0.00
ATOM 275	H	LEU A	23	140.421	0.323	7.234	1.00	0.00
ATOM 276	HA	LEU A	23	142.767	-0.815	5.955	1.00	0.00
ATOM 277	1HB	LEU A	23	140.123	-2.109	6.625	1.00	0.00
ATOM 278	2HB	LEU A	23	141.585	-2.938	6.124	1.00	0.00
ATOM 279	HG	LEU A	23	141.646	-1.252	8.591	1.00	0.00
ATOM 280	1HD1	LEU A	23	140.808	-2.986	9.957	1.00	0.00
ATOM 281	2HD1	LEU A	23	140.748	-4.120	8.608	1.00	0.00

ATOM 282	3HD1	LEU A	23	139.626	-2.761	8.667	1.00	0.00
ATOM 283	1HD2	LEU A	23	143.555	-2.641	7.303	1.00	0.00
ATOM 284	2HD2	LEU A	23	142.953	-3.888	8.396	1.00	0.00
ATOM 285	3HD2	LEU A	23	143.557	-2.363	9.045	1.00	0.00
ATOM 286	N	ALA A	24	141.915	-1.389	3.630	1.00	0.00
ATOM 287	CA	ALA A	24	141.529	-1.423	2.224	1.00	0.00
ATOM 288	C	ALA A	24	142.121	-2.640	1.521	1.00	0.00
ATOM 289	O	ALA A	24	143.023	-3.294	2.044	1.00	0.00
ATOM 290	CB	ALA A	24	141.969	-0.144	1.526	1.00	0.00
ATOM 291	H	ALA A	24	142.743	-1.830	3.909	1.00	0.00
ATOM 292	HA	ALA A	24	140.452	-1.479	2.176	1.00	0.00
ATOM 293	1HB	ALA A	24	141.717	-0.202	0.478	1.00	0.00
ATOM 294	2HB	ALA A	24	143.037	-0.024	1.634	1.00	0.00
ATOM 295	3HB	ALA A	24	141.466	0.701	1.972	1.00	0.00
ATOM 296	N	GLU A	25	141.605	-2.939	0.333	1.00	0.00
ATOM 297	CA	GLU A	25	142.081	-4.077	-0.443	1.00	0.00
ATOM 298	C	GLU A	25	142.488	-3.644	-1.848	1.00	0.00
ATOM 299	O	GLU A	25	142.089	-2.580	-2.320	1.00	0.00
ATOM 300	CB	GLU A	25	140.999	-5.155	-0.523	1.00	0.00
ATOM 301	CG	GLU A	25	141.483	-6.460	-1.133	1.00	0.00
ATOM 302	CD	GLU A	25	140.401	-7.521	-1.174	1.00	0.00
ATOM 303	OE1	GLU A	25	140.726	-8.709	-0.962	1.00	0.00
ATOM 304	OE2	GLU A	25	139.228	-7.166	-1.416	1.00	0.00
ATOM 305	H	GLU A	25	140.888	-2.379	-0.031	1.00	0.00
ATOM 306	HA	GLU A	25	142.945	-4.484	0.060	1.00	0.00
ATOM 307	1HB	GLU A	25	140.638	-5.362	0.474	1.00	0.00
ATOM 308	2HB	GLU A	25	140.181	-4.783	-1.122	1.00	0.00
ATOM 309	1HG	GLU A	25	141.815	-6.270	-2.143	1.00	0.00
ATOM 310	2HG	GLU A	25	142.310	-6.832	-0.547	1.00	0.00

ATOM 311	N	VAL A	26	143.287	-4.475	-2.511	1.00	0.00
ATOM 312	CA	VAL A	26	143.748	-4.177	-3.861	1.00	0.00
ATOM 313	C	VAL A	26	143.419	-5.317	-4.819	1.00	0.00
ATOM 314	O	VAL A	26	143.323	-6.475	-4.413	1.00	0.00
ATOM 315	CB	VAL A	26	145.265	-3.918	-3.892	1.00	0.00
ATOM 316	CG1	VAL A	26	145.695	-3.418	-5.262	1.00	0.00
ATOM 317	CG2	VAL A	26	145.659	-2.927	-2.807	1.00	0.00
ATOM 318	H	VAL A	26	143.571	-5.309	-2.081	1.00	0.00
ATOM 319	HA	VAL A	26	143.244	-3.282	-4.196	1.00	0.00
ATOM 320	HB	VAL A	26	145.774	-4.851	-3.699	1.00	0.00
ATOM 321	1HG1	VAL A	26	146.529	-2.740	-5.153	1.00	0.00
ATOM 322	2HG1	VAL A	26	144.870	-2.902	-5.732	1.00	0.00
ATOM 323	3HG1	VAL A	26	145.990	-4.257	-5.875	1.00	0.00
ATOM 324	1HG2	VAL A	26	146.736	-2.901	-2.717	1.00	0.00
ATOM 325	2HG2	VAL A	26	145.228	-3.233	-1.866	1.00	0.00
ATOM 326	3HG2	VAL A	26	145.296	-1.944	-3.067	1.00	0.00
ATOM 327	N	LYS A	27	143.246	-4.980	-6.093	1.00	0.00
ATOM 328	CA	LYS A	27	142.928	-5.975	-7.111	1.00	0.00
ATOM 329	C	LYS A	27	144.200	-6.598	-7.678	1.00	0.00
ATOM 330	O	LYS A	27	145.039	-5.906	-8.254	1.00	0.00
ATOM 331	CB	LYS A	27	142.112	-5.339	-8.237	1.00	0.00
ATOM 332	CG	LYS A	27	140.694	-4.972	-7.829	1.00	0.00
ATOM 333	CD	LYS A	27	139.714	-5.178	-8.973	1.00	0.00
ATOM 334	CE	LYS A	27	139.400	-6.652	-9.178	1.00	0.00
ATOM 335	NZ	LYS A	27	138.239	-7.091	-8.356	1.00	0.00
ATOM 336	H	LYS A	27	143.336	-4.040	-6.356	1.00	0.00
ATOM 337	HA	LYS A	27	142.339	-6.751	-6.643	1.00	0.00
ATOM 338	1HB	LYS A	27	142.612	-4.442	-8.567	1.00	0.00
ATOM 339	2HB	LYS A	27	142.057	-6.034	-9.063	1.00	0.00

ATOM 340	1HG	LYS A	27	140.397	-5.594	-6.998	1.00	0.00
ATOM 341	2HG	LYS A	27	140.674	-3.935	-7.532	1.00	0.00
ATOM 342	1HD	LYS A	27	138.798	-4.653	-8.748	1.00	0.00
ATOM 343	2HD	LYS A	27	140.146	-4.782	-9.880	1.00	0.00
ATOM 344	1HE	LYS A	27	139.173	-6.816	-10.221	1.00	0.00
ATOM 345	2HE	LYS A	27	140.267	-7.233	-8.902	1.00	0.00
ATOM 346	1HZ	LYS A	27	138.386	-8.065	-8.021	1.00	0.00
ATOM 347	2HZ	LYS A	27	137.368	-7.059	-8.922	1.00	0.00
ATOM 348	3HZ	LYS A	27	138.126	-6.466	-7.532	1.00	0.00
ATOM 349	N	GLU A	28	144.336	-7.910	-7.512	1.00	0.00
ATOM 350	CA	GLU A	28	145.506	-8.625	-8.008	1.00	0.00
ATOM 351	C	GLU A	28	145.304	-10.134	-7.909	1.00	0.00
ATOM 352	O	GLU A	28	144.222	-10.604	-7.555	1.00	0.00
ATOM 353	CB	GLU A	28	146.753	-8.211	-7.224	1.00	0.00
ATOM 354	CG	GLU A	28	147.925	-7.818	-8.108	1.00	0.00
ATOM 355	CD	GLU A	28	149.250	-7.857	-7.373	1.00	0.00
ATOM 356	OE1	GLU A	28	149.698	-6.791	-6.900	1.00	0.00
ATOM 357	OE2	GLU A	28	149.840	-8.953	-7.271	1.00	0.00
ATOM 358	H	GLU A	28	143.634	-8.408	-7.044	1.00	0.00
ATOM 359	HA	GLU A	28	145.640	-8.360	-9.046	1.00	0.00
ATOM 360	1HB	GLU A	28	146.505	-7.368	-6.596	1.00	0.00
ATOM 361	2HB	GLU A	28	147.064	-9.035	-6.598	1.00	0.00
ATOM 362	1HG	GLU A	28	147.974	-8.500	-8.943	1.00	0.00
ATOM 363	2HG	GLU A	28	147.762	-6.814	-8.474	1.00	0.00
ATOM 364	N	ASN A	29	146.352	-10.887	-8.224	1.00	0.00
ATOM 365	CA	ASN A	29	146.291	-12.343	-8.170	1.00	0.00
ATOM 366	C	ASN A	29	146.243	-12.833	-6.724	1.00	0.00
ATOM 367	O	ASN A	29	145.308	-13.528	-6.327	1.00	0.00
ATOM 368	CB	ASN A	29	147.497	-12.952	-8.888	1.00	0.00

ATOM 369	CG	ASN A	29	147.184	-13.332	-10.322	1.00	0.00
ATOM 370	OD1	ASN A	29	146.964	-14.502	-10.633	1.00	0.00
ATOM 371	ND2	ASN A	29	147.164	-12.340	-11.206	1.00	0.00
ATOM 372	H	ASN A	29	147.187	-10.454	-8.498	1.00	0.00
ATOM 373	HA	ASN A	29	145.388	-12.655	-8.673	1.00	0.00
ATOM 374	1HB	ASN A	29	148.304	-12.235	-8.894	1.00	0.00
ATOM 375	2HB	ASN A	29	147.813	-13.840	-8.361	1.00	0.00
ATOM 376	1HD2	ASN A	29	147.348	-11.432	-10.887	1.00	0.00
ATOM 377	2HD2	ASN A	29	146.964	-12.557	-12.141	1.00	0.00
ATOM 378	N	PRO A	30	147.256	-12.475	-5.915	1.00	0.00
ATOM 379	CA	PRO A	30	147.323	-12.883	-4.510	1.00	0.00
ATOM 380	C	PRO A	30	146.375	-12.074	-3.625	1.00	0.00
ATOM 381	O	PRO A	30	146.600	-10.886	-3.390	1.00	0.00
ATOM 382	CB	PRO A	30	148.776	-12.596	-4.136	1.00	0.00
ATOM 383	CG	PRO A	30	149.176	-11.466	-5.020	1.00	0.00
ATOM 384	CD	PRO A	30	148.413	-11.647	-6.307	1.00	0.00
ATOM 385	HA	PRO A	30	147.119	-13.936	-4.392	1.00	0.00
ATOM 386	1HB	PRO A	30	148.836	-12.324	-3.093	1.00	0.00
ATOM 387	2HB	PRO A	30	149.379	-13.473	-4.321	1.00	0.00
ATOM 388	1HG	PRO A	30	148.909	-10.527	-4.557	1.00	0.00
ATOM 389	2HG	PRO A	30	150.238	-11.504	-5.207	1.00	0.00
ATOM 390	1HD	PRO A	30	148.090	-10.692	-6.690	1.00	0.00
ATOM 391	2HD	PRO A	30	149.023	-12.160	-7.036	1.00	0.00
ATOM 392	N	PRO A	31	145.299	-12.705	-3.121	1.00	0.00
ATOM 393	CA	PRO A	31	144.321	-12.029	-2.261	1.00	0.00
ATOM 394	C	PRO A	31	144.903	-11.667	-0.899	1.00	0.00
ATOM 395	O	PRO A	31	144.919	-12.489	0.018	1.00	0.00
ATOM 396	CB	PRO A	31	143.202	-13.061	-2.109	1.00	0.00
ATOM 397	CG	PRO A	31	143.863	-14.375	-2.339	1.00	0.00

ATOM 398	CD	PRO A	31	144.949	-14.120	-3.347	1.00	0.00
ATOM 399	HA	PRO A	31	143.932	-11.138	-2.731	1.00	0.00
ATOM 400	1HB	PRO A	31	142.783	-12.998	-1.115	1.00	0.00
ATOM 401	2HB	PRO A	31	142.433	-12.873	-2.842	1.00	0.00
ATOM 402	1HG	PRO A	31	144.287	-14.739	-1.415	1.00	0.00
ATOM 403	2HG	PRO A	31	143.147	-15.083	-2.731	1.00	0.00
ATOM 404	1HD	PRO A	31	145.797	-14.762	-3.159	1.00	0.00
ATOM 405	2HD	PRO A	31	144.576	-14.269	-4.350	1.00	0.00
ATOM 406	N	PHE A	32	145.381	-10.433	-0.773	1.00	0.00
ATOM 407	CA	PHE A	32	145.964	-9.962	0.477	1.00	0.00
ATOM 408	C	PHE A	32	145.145	-8.815	1.062	1.00	0.00
ATOM 409	O	PHE A	32	144.214	-8.318	0.429	1.00	0.00
ATOM 410	CB	PHE A	32	147.408	-9.509	0.251	1.00	0.00
ATOM 411	CG	PHE A	32	147.563	-8.546	-0.891	1.00	0.00
ATOM 412	CD1	PHE A	32	147.148	-7.230	-0.765	1.00	0.00
ATOM 413	CD2	PHE A	32	148.123	-8.957	-2.089	1.00	0.00
ATOM 414	CE1	PHE A	32	147.290	-6.342	-1.814	1.00	0.00
ATOM 415	CE2	PHE A	32	148.267	-8.074	-3.142	1.00	0.00
ATOM 416	CZ	PHE A	32	147.850	-6.764	-3.004	1.00	0.00
ATOM 417	H	PHE A	32	145.339	-9.824	-1.540	1.00	0.00
ATOM 418	HA	PHE A	32	145.959	-10.785	1.177	1.00	0.00
ATOM 419	1HB	PHE A	32	147.769	-9.024	1.146	1.00	0.00
ATOM 420	2HB	PHE A	32	148.020	-10.375	0.045	1.00	0.00
ATOM 421	HD1	PHE A	32	146.710	-6.898	0.165	1.00	0.00
ATOM 422	HD2	PHE A	32	148.449	-9.981	-2.198	1.00	0.00
ATOM 423	HE1	PHE A	32	146.963	-5.318	-1.704	1.00	0.00
ATOM 424	HE2	PHE A	32	148.705	-8.407	-4.071	1.00	0.00
ATOM 425	HZ	PHE A	32	147.962	-6.072	-3.825	1.00	0.00
ATOM 426	N	TYR A	33	145.499	-8.400	2.274	1.00	0.00

ATOM 427	CA	TYR A	33	144.798	-7.311	2.945	1.00	0.00
ATOM 428	C	TYR A	33	145.784	-6.357	3.611	1.00	0.00
ATOM 429	O	TYR A	33	146.646	-6.779	4.381	1.00	0.00
ATOM 430	CB	TYR A	33	143.825	-7.868	3.986	1.00	0.00
ATOM 431	CG	TYR A	33	142.526	-8.368	3.396	1.00	0.00
ATOM 432	CD1	TYR A	33	141.669	-7.506	2.726	1.00	0.00
ATOM 433	CD2	TYR A	33	142.158	-9.703	3.510	1.00	0.00
ATOM 434	CE1	TYR A	33	140.480	-7.959	2.185	1.00	0.00
ATOM 435	CE2	TYR A	33	140.973	-10.164	2.972	1.00	0.00
ATOM 436	CZ	TYR A	33	140.137	-9.289	2.311	1.00	0.00
ATOM 437	OH	TYR A	33	138.955	-9.745	1.775	1.00	0.00
ATOM 438	H	TYR A	33	146.251	-8.836	2.728	1.00	0.00
ATOM 439	HA	TYR A	33	144.238	-6.768	2.198	1.00	0.00
ATOM 440	1HB	TYR A	33	144.294	-8.692	4.501	1.00	0.00
ATOM 441	2HB	TYR A	33	143.590	-7.092	4.700	1.00	0.00
ATOM 442	HD1	TYR A	33	141.940	-6.465	2.628	1.00	0.00
ATOM 443	HD2	TYR A	33	142.815	-10.386	4.029	1.00	0.00
ATOM 444	HE1	TYR A	33	139.826	-7.274	1.666	1.00	0.00
ATOM 445	HE2	TYR A	33	140.704	-11.206	3.072	1.00	0.00
ATOM 446	HH	TYR A	33	138.298	-9.828	2.469	1.00	0.00
ATOM 447	N	GLY A	34	145.651	-5.070	3.307	1.00	0.00
ATOM 448	CA	GLY A	34	146.537	-4.077	3.886	1.00	0.00
ATOM 449	C	GLY A	34	145.804	-2.819	4.308	1.00	0.00
ATOM 450	O	GLY A	34	144.764	-2.480	3.743	1.00	0.00
ATOM 451	H	GLY A	34	144.946	-4.792	2.687	1.00	0.00
ATOM 452	1HA	GLY A	34	147.024	-4.505	4.749	1.00	0.00
ATOM 453	2HA	GLY A	34	147.289	-3.814	3.156	1.00	0.00
ATOM 454	N	VAL A	35	146.346	-2.128	5.305	1.00	0.00
ATOM 455	CA	VAL A	35	145.736	-0.901	5.804	1.00	0.00

ATOM 456	C	VAL A	35	146.431	0.330	5.231	1.00	0.00
ATOM 457	O	VAL A	35	147.642	0.322	5.004	1.00	0.00
ATOM 458	CB	VAL A	35	145.779	-0.837	7.344	1.00	0.00
ATOM 459	CG1	VAL A	35	147.217	-0.819	7.843	1.00	0.00
ATOM 460	CG2	VAL A	35	145.015	0.376	7.851	1.00	0.00
ATOM 461	H	VAL A	35	147.176	-2.450	5.715	1.00	0.00
ATOM 462	HA	VAL A	35	144.701	-0.894	5.493	1.00	0.00
ATOM 463	HB	VAL A	35	145.301	-1.725	7.733	1.00	0.00
ATOM 464	1HG1	VAL A	35	147.875	-1.161	7.059	1.00	0.00
ATOM 465	2HG1	VAL A	35	147.309	-1.469	8.701	1.00	0.00
ATOM 466	3HG1	VAL A	35	147.487	0.189	8.125	1.00	0.00
ATOM 467	1HG2	VAL A	35	145.349	1.258	7.325	1.00	0.00
ATOM 468	2HG2	VAL A	35	145.194	0.499	8.909	1.00	0.00
ATOM 469	3HG2	VAL A	35	143.958	0.233	7.680	1.00	0.00
ATOM 470	N	ILE A	36	145.660	1.386	4.999	1.00	0.00
ATOM 471	CA	ILE A	36	146.203	2.624	4.454	1.00	0.00
ATOM 472	C	ILE A	36	147.172	3.275	5.434	1.00	0.00
ATOM 473	O	ILE A	36	146.898	3.358	6.631	1.00	0.00
ATOM 474	CB	ILE A	36	145.085	3.628	4.109	1.00	0.00
ATOM 475	CG1	ILE A	36	144.024	2.962	3.230	1.00	0.00
ATOM 476	CG2	ILE A	36	145.664	4.852	3.414	1.00	0.00
ATOM 477	CD1	ILE A	36	142.872	3.878	2.875	1.00	0.00
ATOM 478	H	ILE A	36	144.702	1.332	5.201	1.00	0.00
ATOM 479	HA	ILE A	36	146.734	2.383	3.544	1.00	0.00
ATOM 480	HB	ILE A	36	144.627	3.952	5.031	1.00	0.00
ATOM 481	1HG1	ILE A	36	144.482	2.636	2.309	1.00	0.00
ATOM 482	2HG1	ILE A	36	143.620	2.106	3.750	1.00	0.00
ATOM 483	1HG2	ILE A	36	145.797	5.645	4.134	1.00	0.00
ATOM 484	2HG2	ILE A	36	144.990	5.179	2.637	1.00	0.00

ATOM 485	3HG2	ILE A	36	146.620	4.599	2.978	1.00	0.00
ATOM 486	1HD1	ILE A	36	142.416	3.542	1.956	1.00	0.00
ATOM 487	2HD1	ILE A	36	143.239	4.886	2.749	1.00	0.00
ATOM 488	3HD1	ILE A	36	142.139	3.858	3.668	1.00	0.00
ATOM 489	N	ARG A	37	148.308	3.734	4.920	1.00	0.00
ATOM 490	CA	ARG A	37	149.320	4.376	5.750	1.00	0.00
ATOM 491	C	ARG A	37	149.586	5.803	5.282	1.00	0.00
ATOM 492	O	ARG A	37	149.349	6.762	6.015	1.00	0.00
ATOM 493	CB	ARG A	37	150.618	3.568	5.724	1.00	0.00
ATOM 494	CG	ARG A	37	150.417	2.085	5.989	1.00	0.00
ATOM 495	CD	ARG A	37	149.715	1.846	7.317	1.00	0.00
ATOM 496	NE	ARG A	37	150.302	2.636	8.396	1.00	0.00
ATOM 497	CZ	ARG A	37	149.687	2.887	9.550	1.00	0.00
ATOM 498	NH1	ARG A	37	148.468	2.412	9.778	1.00	0.00
ATOM 499	NH2	ARG A	37	150.290	3.616	10.478	1.00	0.00
ATOM 500	H	ARG A	37	148.470	3.638	3.958	1.00	0.00
ATOM 501	HA	ARG A	37	148.948	4.407	6.763	1.00	0.00
ATOM 502	1HB	ARG A	37	151.079	3.679	4.753	1.00	0.00
ATOM 503	2HB	ARG A	37	151.288	3.958	6.476	1.00	0.00
ATOM 504	1HG	ARG A	37	149.818	1.665	5.196	1.00	0.00
ATOM 505	2HG	ARG A	37	151.382	1.599	6.010	1.00	0.00
ATOM 506	1HD	ARG A	37	148.674	2.115	7.212	1.00	0.00
ATOM 507	2HD	ARG A	37	149.793	0.798	7.567	1.00	0.00
ATOM 508	HE	ARG A	37	151.201	2.999	8.255	1.00	0.00
ATOM 509	1HH1	ARG A	37	148.007	1.862	9.082	1.00	0.00
ATOM 510	2HH1	ARG A	37	148.011	2.605	10.646	1.00	0.00
ATOM 511	1HH2	ARG A	37	151.209	3.977	10.312	1.00	0.00
ATOM 512	2HH2	ARG A	37	149.828	3.806	11.345	1.00	0.00
ATOM 513	N	TRP A	38	150.083	5.936	4.055	1.00	0.00

ATOM 514	CA	TRP A	38	150.382	7.248	3.491	1.00	0.00
ATOM 515	C	TRP A	38	149.644	7.456	2.172	1.00	0.00
ATOM 516	O	TRP A	38	149.633	6.579	1.308	1.00	0.00
ATOM 517	CB	TRP A	38	151.892	7.404	3.276	1.00	0.00
ATOM 518	CG	TRP A	38	152.262	8.620	2.479	1.00	0.00
ATOM 519	CD1	TRP A	38	152.533	9.868	2.963	1.00	0.00
ATOM 520	CD2	TRP A	38	152.396	8.703	1.055	1.00	0.00
ATOM 521	NE1	TRP A	38	152.827	10.721	1.926	1.00	0.00
ATOM 522	CE2	TRP A	38	152.751	10.030	0.745	1.00	0.00
ATOM 523	CE3	TRP A	38	152.252	7.784	0.013	1.00	0.00
ATOM 524	CZ2	TRP A	38	152.962	10.458	-0.563	1.00	0.00
ATOM 525	CZ3	TRP A	38	152.463	8.210	-1.286	1.00	0.00
ATOM 526	CH2	TRP A	38	152.814	9.536	-1.565	1.00	0.00
ATOM 527	H	TRP A	38	150.253	5.134	3.518	1.00	0.00
ATOM 528	HA	TRP A	38	150.049	7.995	4.196	1.00	0.00
ATOM 529	1HB	TRP A	38	152.379	7.476	4.237	1.00	0.00
ATOM 530	2HB	TRP A	38	152.266	6.535	2.754	1.00	0.00
ATOM 531	HD1	TRP A	38	152.514	10.132	4.010	1.00	0.00
ATOM 532	HE1	TRP A	38	153.056	11.670	2.018	1.00	0.00
ATOM 533	HE3	TRP A	38	151.981	6.759	0.207	1.00	0.00
ATOM 534	HZ2	TRP A	38	153.231	11.478	-0.795	1.00	0.00
ATOM 535	HZ3	TRP A	38	152.355	7.513	-2.104	1.00	0.00
ATOM 536	HH2	TRP A	38	152.969	9.824	-2.593	1.00	0.00
ATOM 537	N	ILE A	39	149.036	8.627	2.024	1.00	0.00
ATOM 538	CA	ILE A	39	148.303	8.964	0.811	1.00	0.00
ATOM 539	C	ILE A	39	148.816	10.273	0.222	1.00	0.00
ATOM 540	O	ILE A	39	148.549	11.350	0.755	1.00	0.00
ATOM 541	CB	ILE A	39	146.790	9.092	1.081	1.00	0.00
ATOM 542	CG1	ILE A	39	146.274	7.856	1.822	1.00	0.00

ATOM 543	CG2	ILE A	39	146.032	9.287	-0.224	1.00	0.00
ATOM 544	CD1	ILE A	39	145.101	8.145	2.733	1.00	0.00
ATOM 545	H	ILE A	39	149.088	9.286	2.747	1.00	0.00
ATOM 546	HA	ILE A	39	148.456	8.172	0.093	1.00	0.00
ATOM 547	HB	ILE A	39	146.629	9.965	1.695	1.00	0.00
ATOM 548	1HG1	ILE A	39	145.960	7.118	1.101	1.00	0.00
ATOM 549	2HG1	ILE A	39	147.071	7.447	2.425	1.00	0.00
ATOM 550	1HG2	ILE A	39	145.622	8.342	-0.547	1.00	0.00
ATOM 551	2HG2	ILE A	39	146.707	9.664	-0.979	1.00	0.00
ATOM 552	3HG2	ILE A	39	145.231	9.995	-0.073	1.00	0.00
ATOM 553	1HD1	ILE A	39	144.233	8.383	2.137	1.00	0.00
ATOM 554	2HD1	ILE A	39	145.340	8.981	3.373	1.00	0.00
ATOM 555	3HD1	ILE A	39	144.894	7.275	3.339	1.00	0.00
ATOM 556	N	GLY A	40	149.562	10.175	-0.874	1.00	0.00
ATOM 557	CA	GLY A	40	150.105	11.364	-1.504	1.00	0.00
ATOM 558	C	GLY A	40	150.637	11.098	-2.898	1.00	0.00
ATOM 559	O	GLY A	40	150.426	10.024	-3.459	1.00	0.00
ATOM 560	H	GLY A	40	149.748	9.291	-1.254	1.00	0.00
ATOM 561	1HA	GLY A	40	149.331	12.112	-1.563	1.00	0.00
ATOM 562	2HA	GLY A	40	150.908	11.743	-0.891	1.00	0.00
ATOM 563	N	GLN A	41	151.328	12.086	-3.457	1.00	0.00
ATOM 564	CA	GLN A	41	151.895	11.967	-4.793	1.00	0.00
ATOM 565	C	GLN A	41	153.376	12.344	-4.788	1.00	0.00
ATOM 566	O	GLN A	41	153.728	13.492	-4.515	1.00	0.00
ATOM 567	CB	GLN A	41	151.130	12.866	-5.763	1.00	0.00
ATOM 568	CG	GLN A	41	149.620	12.715	-5.668	1.00	0.00
ATOM 569	CD	GLN A	41	148.895	14.042	-5.778	1.00	0.00
ATOM 570	OE1	GLN A	41	148.894	14.842	-4.843	1.00	0.00
ATOM 571	NE2	GLN A	41	148.272	14.279	-6.925	1.00	0.00

ATOM 572	H	GLN A	41	151.459	12.918	-2.958	1.00	0.00
ATOM 573	HA	GLN A	41	151.792	10.941	-5.109	1.00	0.00
ATOM 574	1HB	GLN A	41	151.379	13.894	-5.556	1.00	0.00
ATOM 575	2HB	GLN A	41	151.432	12.627	-6.770	1.00	0.00
ATOM 576	1HG	GLN A	41	149.283	12.072	-6.467	1.00	0.00
ATOM 577	2HG	GLN A	41	149.375	12.265	-4.717	1.00	0.00
ATOM 578	1HE2	GLN A	41	148.316	13.594	-7.625	1.00	0.00
ATOM 579	2HE2	GLN A	41	147.796	15.129	-7.027	1.00	0.00
ATOM 580	N	PRO A	42	154.268	11.383	-5.087	1.00	0.00
ATOM 581	CA	PRO A	42	155.715	11.629	-5.110	1.00	0.00
ATOM 582	C	PRO A	42	156.096	12.747	-6.075	1.00	0.00
ATOM 583	O	PRO A	42	155.335	13.080	-6.984	1.00	0.00
ATOM 584	CB	PRO A	42	156.302	10.294	-5.578	1.00	0.00
ATOM 585	CG	PRO A	42	155.260	9.283	-5.249	1.00	0.00
ATOM 586	CD	PRO A	42	153.945	9.985	-5.423	1.00	0.00
ATOM 587	HA	PRO A	42	156.090	11.865	-4.124	1.00	0.00
ATOM 588	1HB	PRO A	42	156.493	10.335	-6.641	1.00	0.00
ATOM 589	2HB	PRO A	42	157.223	10.097	-5.049	1.00	0.00
ATOM 590	1HG	PRO A	42	155.331	8.445	-5.926	1.00	0.00
ATOM 591	2HG	PRO A	42	155.376	8.954	-4.227	1.00	0.00
ATOM 592	1HD	PRO A	42	153.605	9.903	-6.446	1.00	0.00
ATOM 593	2HD	PRO A	42	153.209	9.585	-4.743	1.00	0.00
ATOM 594	N	PRO A	43	157.285	13.342	-5.890	1.00	0.00
ATOM 595	CA	PRO A	43	157.767	14.428	-6.748	1.00	0.00
ATOM 596	C	PRO A	43	158.173	13.935	-8.132	1.00	0.00
ATOM 597	O	PRO A	43	159.339	13.621	-8.371	1.00	0.00
ATOM 598	CB	PRO A	43	158.985	14.962	-5.996	1.00	0.00
ATOM 599	CG	PRO A	43	159.475	13.802	-5.200	1.00	0.00
ATOM 600	CD	PRO A	43	158.254	13.005	-4.829	1.00	0.00

ATOM 601	HA	PRO A	43	157.029	15.211	-6.848	1.00	0.00
ATOM 602	1HB	PRO A	43	159.727	15.298	-6.705	1.00	0.00
ATOM 603	2HB	PRO A	43	158.689	15.781	-5.358	1.00	0.00
ATOM 604	1HG	PRO A	43	160.145	13.204	-5.799	1.00	0.00
ATOM 605	2HG	PRO A	43	159.978	14.153	-4.312	1.00	0.00
ATOM 606	1HD	PRO A	43	158.478	11.948	-4.834	1.00	0.00
ATOM 607	2HD	PRO A	43	157.885	13.309	-3.860	1.00	0.00
ATOM 608	N	GLY A	44	157.207	13.870	-9.040	1.00	0.00
ATOM 609	CA	GLY A	44	157.488	13.414	-10.387	1.00	0.00
ATOM 610	C	GLY A	44	156.252	12.910	-11.101	1.00	0.00
ATOM 611	O	GLY A	44	155.972	13.313	-12.231	1.00	0.00
ATOM 612	H	GLY A	44	156.296	14.134	-8.793	1.00	0.00
ATOM 613	1HA	GLY A	44	157.906	14.235	-10.951	1.00	0.00
ATOM 614	2HA	GLY A	44	158.214	12.617	-10.341	1.00	0.00
ATOM 615	N	LEU A	45	155.510	12.027	-10.443	1.00	0.00
ATOM 616	CA	LEU A	45	154.295	11.469	-11.028	1.00	0.00
ATOM 617	C	LEU A	45	153.086	11.765	-10.150	1.00	0.00
ATOM 618	O	LEU A	45	152.975	11.248	-9.038	1.00	0.00
ATOM 619	CB	LEU A	45	154.444	9.959	-11.218	1.00	0.00
ATOM 620	CG	LEU A	45	154.988	9.203	-10.004	1.00	0.00
ATOM 621	CD1	LEU A	45	154.629	7.726	-10.087	1.00	0.00
ATOM 622	CD2	LEU A	45	156.495	9.388	-9.894	1.00	0.00
ATOM 623	H	LEU A	45	155.782	11.746	-9.543	1.00	0.00
ATOM 624	HA	LEU A	45	154.148	11.931	-11.991	1.00	0.00
ATOM 625	1HB	LEU A	45	153.475	9.551	-11.466	1.00	0.00
ATOM 626	2HB	LEU A	45	155.111	9.787	-12.049	1.00	0.00
ATOM 627	HG	LEU A	45	154.535	9.607	-9.109	1.00	0.00
ATOM 628	1HD1	LEU A	45	153.985	7.558	-10.938	1.00	0.00
ATOM 629	2HD1	LEU A	45	154.117	7.429	-9.184	1.00	0.00

ATOM 630	3HD1	LEU A	45	155.531	7.142	-10.197	1.00	0.00
ATOM 631	1HD2	LEU A	45	156.875	9.815	-10.811	1.00	0.00
ATOM 632	2HD2	LEU A	45	156.964	8.431	-9.722	1.00	0.00
ATOM 633	3HD2	LEU A	45	156.717	10.051	-9.070	1.00	0.00
ATOM 634	N	ASN A	46	152.178	12.595	-10.653	1.00	0.00
ATOM 635	CA	ASN A	46	150.981	12.946	-9.903	1.00	0.00
ATOM 636	C	ASN A	46	150.007	11.773	-9.876	1.00	0.00
ATOM 637	O	ASN A	46	149.382	11.447	-10.884	1.00	0.00
ATOM 638	CB	ASN A	46	150.308	14.173	-10.523	1.00	0.00
ATOM 639	CG	ASN A	46	149.087	14.620	-9.744	1.00	0.00
ATOM 640	OD1	ASN A	46	149.139	15.592	-8.989	1.00	0.00
ATOM 641	ND2	ASN A	46	147.978	13.912	-9.923	1.00	0.00
ATOM 642	H	ASN A	46	152.317	12.977	-11.545	1.00	0.00
ATOM 643	HA	ASN A	46	151.277	13.178	-8.890	1.00	0.00
ATOM 644	1HB	ASN A	46	151.014	14.989	-10.547	1.00	0.00
ATOM 645	2HB	ASN A	46	150.002	13.936	-11.531	1.00	0.00
ATOM 646	1HD2	ASN A	46	148.010	13.150	-10.539	1.00	0.00
ATOM 647	2HD2	ASN A	46	147.173	14.179	-9.431	1.00	0.00
ATOM 648	N	GLU A	47	149.886	11.143	-8.714	1.00	0.00
ATOM 649	CA	GLU A	47	148.991	10.003	-8.548	1.00	0.00
ATOM 650	C	GLU A	47	148.795	9.679	-7.072	1.00	0.00
ATOM 651	O	GLU A	47	149.757	9.386	-6.360	1.00	0.00
ATOM 652	CB	GLU A	47	149.544	8.780	-9.283	1.00	0.00
ATOM 653	CG	GLU A	47	151.053	8.631	-9.175	1.00	0.00
ATOM 654	CD	GLU A	47	151.612	7.635	-10.172	1.00	0.00
ATOM 655	OE1	GLU A	47	152.051	6.547	-9.742	1.00	0.00
ATOM 656	OE2	GLU A	47	151.611	7.942	-11.382	1.00	0.00
ATOM 657	H	GLU A	47	150.413	11.450	-7.947	1.00	0.00
ATOM 658	HA	GLU A	47	148.035	10.269	-8.975	1.00	0.00

ATOM 659	1HB	GLU A	47	149.085	7.892	-8.873	1.00	0.00
ATOM 660	2HB	GLU A	47	149.285	8.856	-10.329	1.00	0.00
ATOM 661	1HG	GLU A	47	151.509	9.591	-9.354	1.00	0.00
ATOM 662	2HG	GLU A	47	151.299	8.297	-8.178	1.00	0.00
ATOM 663	N	VAL A	48	147.550	9.722	-6.615	1.00	0.00
ATOM 664	CA	VAL A	48	147.242	9.421	-5.223	1.00	0.00
ATOM 665	C	VAL A	48	147.544	7.961	-4.911	1.00	0.00
ATOM 666	O	VAL A	48	146.763	7.070	-5.245	1.00	0.00
ATOM 667	CB	VAL A	48	145.766	9.714	-4.894	1.00	0.00
ATOM 668	CG1	VAL A	48	145.506	9.548	-3.405	1.00	0.00
ATOM 669	CG2	VAL A	48	145.379	11.112	-5.356	1.00	0.00
ATOM 670	H	VAL A	48	146.821	9.956	-7.228	1.00	0.00
ATOM 671	HA	VAL A	48	147.863	10.050	-4.600	1.00	0.00
ATOM 672	HB	VAL A	48	145.151	9.001	-5.424	1.00	0.00
ATOM 673	1HG1	VAL A	48	145.621	8.509	-3.133	1.00	0.00
ATOM 674	2HG1	VAL A	48	144.501	9.870	-3.176	1.00	0.00
ATOM 675	3HG1	VAL A	48	146.211	10.146	-2.848	1.00	0.00
ATOM 676	1HG2	VAL A	48	145.377	11.783	-4.511	1.00	0.00
ATOM 677	2HG2	VAL A	48	144.394	11.086	-5.797	1.00	0.00
ATOM 678	3HG2	VAL A	48	146.092	11.459	-6.089	1.00	0.00
ATOM 679	N	LEU A	49	148.686	7.722	-4.274	1.00	0.00
ATOM 680	CA	LEU A	49	149.095	6.369	-3.922	1.00	0.00
ATOM 681	C	LEU A	49	148.953	6.132	-2.425	1.00	0.00
ATOM 682	O	LEU A	49	149.654	6.746	-1.620	1.00	0.00
ATOM 683	CB	LEU A	49	150.541	6.122	-4.355	1.00	0.00
ATOM 684	CG	LEU A	49	150.814	6.327	-5.847	1.00	0.00
ATOM 685	CD1	LEU A	49	152.298	6.555	-6.090	1.00	0.00
ATOM 686	CD2	LEU A	49	150.318	5.131	-6.647	1.00	0.00
ATOM 687	H	LEU A	49	149.268	8.474	-4.036	1.00	0.00

ATOM 688	HA	LEU A	49	148.448	5.681	-4.446	1.00	0.00
ATOM 689	1HB	LEU A	49	151.181	6.791	-3.798	1.00	0.00
ATOM 690	2HB	LEU A	49	150.802	5.106	-4.101	1.00	0.00
ATOM 691	HG	LEU A	49	150.282	7.203	-6.187	1.00	0.00
ATOM 692	1HD1	LEU A	49	152.427	7.234	-6.919	1.00	0.00
ATOM 693	2HD1	LEU A	49	152.774	5.613	-6.320	1.00	0.00
ATOM 694	3HD1	LEU A	49	152.747	6.979	-5.205	1.00	0.00
ATOM 695	1HD2	LEU A	49	150.366	4.243	-6.034	1.00	0.00
ATOM 696	2HD2	LEU A	49	150.940	5.000	-7.520	1.00	0.00
ATOM 697	3HD2	LEU A	49	149.298	5.303	-6.954	1.00	0.00
ATOM 698	N	ALA A	50	148.042	5.240	-2.056	1.00	0.00
ATOM 699	CA	ALA A	50	147.812	4.926	-0.654	1.00	0.00
ATOM 700	C	ALA A	50	148.671	3.747	-0.208	1.00	0.00
ATOM 701	O	ALA A	50	148.497	2.626	-0.684	1.00	0.00
ATOM 702	CB	ALA A	50	146.339	4.630	-0.414	1.00	0.00
ATOM 703	H	ALA A	50	147.513	4.783	-2.742	1.00	0.00
ATOM 704	HA	ALA A	50	148.080	5.796	-0.072	1.00	0.00
ATOM 705	1HB	ALA A	50	146.190	3.561	-0.361	1.00	0.00
ATOM 706	2HB	ALA A	50	145.753	5.036	-1.225	1.00	0.00
ATOM 707	3HB	ALA A	50	146.028	5.082	0.517	1.00	0.00
ATOM 708	N	GLY A	51	149.597	4.008	0.708	1.00	0.00
ATOM 709	CA	GLY A	51	150.468	2.958	1.202	1.00	0.00
ATOM 710	C	GLY A	51	149.713	1.900	1.982	1.00	0.00
ATOM 711	O	GLY A	51	149.055	2.203	2.976	1.00	0.00
ATOM 712	H	GLY A	51	149.690	4.921	1.053	1.00	0.00
ATOM 713	1HA	GLY A	51	150.959	2.489	0.362	1.00	0.00
ATOM 714	2HA	GLY A	51	151.216	3.398	1.845	1.00	0.00
ATOM 715	N	LEU A	52	149.807	0.654	1.530	1.00	0.00
ATOM 716	CA	LEU A	52	149.126	-0.452	2.192	1.00	0.00

ATOM 717	C	LEU A	52	150.130	-1.409	2.827	1.00	0.00
ATOM 718	O	LEU A	52	151.050	-1.890	2.165	1.00	0.00
ATOM 719	CB	LEU A	52	148.244	-1.207	1.196	1.00	0.00
ATOM 720	CG	LEU A	52	147.058	-0.410	0.649	1.00	0.00
ATOM 721	CD1	LEU A	52	146.479	-1.094	-0.580	1.00	0.00
ATOM 722	CD2	LEU A	52	145.992	-0.242	1.721	1.00	0.00
ATOM 723	H	LEU A	52	150.347	0.474	0.732	1.00	0.00
ATOM 724	HA	LEU A	52	148.501	-0.039	2.970	1.00	0.00
ATOM 725	1HB	LEU A	52	148.862	-1.514	0.364	1.00	0.00
ATOM 726	2HB	LEU A	52	147.862	-2.091	1.683	1.00	0.00
ATOM 727	HG	LEU A	52	147.398	0.572	0.356	1.00	0.00
ATOM 728	1HD1	LEU A	52	146.128	-0.346	-1.275	1.00	0.00
ATOM 729	2HD1	LEU A	52	145.655	-1.725	-0.285	1.00	0.00
ATOM 730	3HD1	LEU A	52	147.243	-1.694	-1.051	1.00	0.00
ATOM 731	1HD2	LEU A	52	145.248	-1.018	1.614	1.00	0.00
ATOM 732	2HD2	LEU A	52	145.522	0.725	1.612	1.00	0.00
ATOM 733	3HD2	LEU A	52	146.448	-0.312	2.697	1.00	0.00
ATOM 734	N	GLU A	53	149.947	-1.681	4.115	1.00	0.00
ATOM 735	CA	GLU A	53	150.836	-2.581	4.842	1.00	0.00
ATOM 736	C	GLU A	53	150.262	-3.993	4.885	1.00	0.00
ATOM 737	O	GLU A	53	149.252	-4.244	5.543	1.00	0.00
ATOM 738	CB	GLU A	53	151.064	-2.068	6.264	1.00	0.00
ATOM 739	CG	GLU A	53	152.012	-2.933	7.078	1.00	0.00
ATOM 740	CD	GLU A	53	151.582	-3.065	8.526	1.00	0.00
ATOM 741	OE1	GLU A	53	151.978	-4.057	9.174	1.00	0.00
ATOM 742	OE2	GLU A	53	150.850	-2.178	9.012	1.00	0.00
ATOM 743	H	GLU A	53	149.195	-1.267	4.589	1.00	0.00
ATOM 744	HA	GLU A	53	151.780	-2.604	4.321	1.00	0.00
ATOM 745	1HB	GLU A	53	151.476	-1.070	6.213	1.00	0.00

ATOM 746	2HB	GLU A	53	150.114	-2.029	6.778	1.00	0.00
ATOM 747	1HG	GLU A	53	152.049	-3.917	6.638	1.00	0.00
ATOM 748	2HG	GLU A	53	152.996	-2.489	7.050	1.00	0.00
ATOM 749	N	LEU A	54	150.912	-4.913	4.179	1.00	0.00
ATOM 750	CA	LEU A	54	150.466	-6.301	4.137	1.00	0.00
ATOM 751	C	LEU A	54	150.720	-6.995	5.472	1.00	0.00
ATOM 752	O	LEU A	54	151.833	-6.966	5.996	1.00	0.00
ATOM 753	CB	LEU A	54	151.180	-7.055	3.014	1.00	0.00
ATOM 754	CG	LEU A	54	151.124	-6.379	1.643	1.00	0.00
ATOM 755	CD1	LEU A	54	152.325	-6.780	0.802	1.00	0.00
ATOM 756	CD2	LEU A	54	149.829	-6.734	0.928	1.00	0.00
ATOM 757	H	LEU A	54	151.711	-4.652	3.675	1.00	0.00
ATOM 758	HA	LEU A	54	149.405	-6.301	3.941	1.00	0.00
ATOM 759	1HB	LEU A	54	152.218	-7.173	3.292	1.00	0.00
ATOM 760	2HB	LEU A	54	150.735	-8.035	2.926	1.00	0.00
ATOM 761	HG	LEU A	54	151.151	-5.308	1.775	1.00	0.00
ATOM 762	1HD1	LEU A	54	152.606	-7.797	1.034	1.00	0.00
ATOM 763	2HD1	LEU A	54	153.152	-6.120	1.018	1.00	0.00
ATOM 764	3HD1	LEU A	54	152.071	-6.708	-0.246	1.00	0.00
ATOM 765	1HD2	LEU A	54	148.988	-6.414	1.527	1.00	0.00
ATOM 766	2HD2	LEU A	54	149.779	-7.803	0.782	1.00	0.00
ATOM 767	3HD2	LEU A	54	149.798	-6.238	-0.030	1.00	0.00
ATOM 768	N	GLU A	55	149.679	-7.618	6.016	1.00	0.00
ATOM 769	CA	GLU A	55	149.791	-8.320	7.289	1.00	0.00
ATOM 770	C	GLU A	55	150.792	-9.466	7.192	1.00	0.00
ATOM 771	O	GLU A	55	151.461	-9.804	8.168	1.00	0.00
ATOM 772	CB	GLU A	55	148.424	-8.856	7.721	1.00	0.00
ATOM 773	CG	GLU A	55	147.393	-7.766	7.967	1.00	0.00
ATOM 774	CD	GLU A	55	146.208	-8.256	8.774	1.00	0.00

ATOM 775	OE1	GLU A	55	146.424	-8.798	9.878	1.00	0.00
ATOM 776	OE2	GLU A	55	145.061	-8.098	8.301	1.00	0.00
ATOM 777	H	GLU A	55	148.817	-7.606	5.550	1.00	0.00
ATOM 778	HA	GLU A	55	150.140	-7.614	8.027	1.00	0.00
ATOM 779	1HB	GLU A	55	148.047	-9.510	6.950	1.00	0.00
ATOM 780	2HB	GLU A	55	148.544	-9.420	8.634	1.00	0.00
ATOM 781	1HG	GLU A	55	147.865	-6.957	8.505	1.00	0.00
ATOM 782	2HG	GLU A	55	147.037	-7.403	7.013	1.00	0.00
ATOM 783	N	ASP A	56	150.887	-10.062	6.007	1.00	0.00
ATOM 784	CA	ASP A	56	151.807	-11.171	5.782	1.00	0.00
ATOM 785	C	ASP A	56	153.176	-10.660	5.344	1.00	0.00
ATOM 786	O	ASP A	56	153.277	-9.692	4.590	1.00	0.00
ATOM 787	CB	ASP A	56	151.242	-12.122	4.724	1.00	0.00
ATOM 788	CG	ASP A	56	150.016	-12.867	5.213	1.00	0.00
ATOM 789	OD1	ASP A	56	149.315	-12.338	6.102	1.00	0.00
ATOM 790	OD2	ASP A	56	149.756	-13.978	4.706	1.00	0.00
ATOM 791	H	ASP A	56	150.327	-9.747	5.268	1.00	0.00
ATOM 792	HA	ASP A	56	151.916	-11.706	6.713	1.00	0.00
ATOM 793	1HB	ASP A	56	150.969	-11.554	3.848	1.00	0.00
ATOM 794	2HB	ASP A	56	151.999	-12.845	4.460	1.00	0.00
ATOM 795	N	GLU A	57	154.228	-11.318	5.821	1.00	0.00
ATOM 796	CA	GLU A	57	155.591	-10.931	5.478	1.00	0.00
ATOM 797	C	GLU A	57	156.010	-11.538	4.143	1.00	0.00
ATOM 798	O	GLU A	57	156.389	-12.708	4.074	1.00	0.00
ATOM 799	CB	GLU A	57	156.560	-11.369	6.578	1.00	0.00
ATOM 800	CG	GLU A	57	156.757	-10.326	7.666	1.00	0.00
ATOM 801	CD	GLU A	57	158.201	-10.219	8.116	1.00	0.00
ATOM 802	OE1	GLU A	57	158.443	-10.236	9.341	1.00	0.00
ATOM 803	OE2	GLU A	57	159.090	-10.120	7.244	1.00	0.00

ATOM 804	H	GLU A	57	154.084	-12.083	6.417	1.00	0.00
ATOM 805	HA	GLU A	57	155.618	-9.855	5.394	1.00	0.00
ATOM 806	1HB	GLU A	57	156.181	-12.270	7.037	1.00	0.00
ATOM 807	2HB	GLU A	57	157.521	-11.579	6.132	1.00	0.00
ATOM 808	1HG	GLU A	57	156.443	-9.365	7.287	1.00	0.00
ATOM 809	2HG	GLU A	57	156.148	-10.593	8.516	1.00	0.00
ATOM 810	N	CYS A	58	155.939	-10.737	3.086	1.00	0.00
ATOM 811	CA	CYS A	58	156.312	-11.196	1.753	1.00	0.00
ATOM 812	C	CYS A	58	157.706	-10.705	1.378	1.00	0.00
ATOM 813	O	CYS A	58	157.990	-9.508	1.434	1.00	0.00
ATOM 814	CB	CYS A	58	155.293	-10.710	0.720	1.00	0.00
ATOM 815	SG	CYS A	58	154.970	-11.892	-0.610	1.00	0.00
ATOM 816	H	CYS A	58	155.630	-9.814	3.204	1.00	0.00
ATOM 817	HA	CYS A	58	156.313	-12.275	1.762	1.00	0.00
ATOM 818	1HB	CYS A	58	154.355	-10.512	1.217	1.00	0.00
ATOM 819	2HB	CYS A	58	155.655	-9.797	0.269	1.00	0.00
ATOM 820	HG	CYS A	58	155.668	-11.801	-1.262	1.00	0.00
ATOM 821	N	ALA A	59	158.573	-11.637	0.996	1.00	0.00
ATOM 822	CA	ALA A	59	159.939	-11.299	0.612	1.00	0.00
ATOM 823	C	ALA A	59	159.962	-10.500	-0.687	1.00	0.00
ATOM 824	O	ALA A	59	159.391	-10.918	-1.695	1.00	0.00
ATOM 825	CB	ALA A	59	160.774	-12.562	0.473	1.00	0.00
ATOM 826	H	ALA A	59	158.289	-12.574	0.971	1.00	0.00
ATOM 827	HA	ALA A	59	160.367	-10.697	1.401	1.00	0.00
ATOM 828	1HB	ALA A	59	160.326	-13.212	-0.264	1.00	0.00
ATOM 829	2HB	ALA A	59	160.818	-13.072	1.424	1.00	0.00
ATOM 830	3HB	ALA A	59	161.774	-12.299	0.160	1.00	0.00
ATOM 831	N	GLY A	60	160.626	-9.350	-0.656	1.00	0.00
ATOM 832	CA	GLY A	60	160.712	-8.510	-1.837	1.00	0.00

ATOM 833	C	GLY A	60	159.849	-7.269	-1.730	1.00	0.00
ATOM 834	O	GLY A	60	159.386	-6.737	-2.739	1.00	0.00
ATOM 835	H	GLY A	60	161.061	-9.068	0.175	1.00	0.00
ATOM 836	1HA	GLY A	60	161.740	-8.211	-1.978	1.00	0.00
ATOM 837	2HA	GLY A	60	160.394	-9.083	-2.696	1.00	0.00
ATOM 838	N	CYS A	61	159.632	-6.805	-0.503	1.00	0.00
ATOM 839	CA	CYS A	61	158.819	-5.618	-0.266	1.00	0.00
ATOM 840	C	CYS A	61	159.616	-4.552	0.480	1.00	0.00
ATOM 841	O	CYS A	61	160.817	-4.705	0.703	1.00	0.00
ATOM 842	CB	CYS A	61	157.564	-5.983	0.530	1.00	0.00
ATOM 843	SG	CYS A	61	156.594	-7.324	-0.199	1.00	0.00
ATOM 844	H	CYS A	61	160.029	-7.273	0.262	1.00	0.00
ATOM 845	HA	CYS A	61	158.523	-5.222	-1.226	1.00	0.00
ATOM 846	1HB	CYS A	61	157.855	-6.292	1.523	1.00	0.00
ATOM 847	2HB	CYS A	61	156.926	-5.115	0.600	1.00	0.00
ATOM 848	HG	CYS A	61	157.151	-7.784	-0.830	1.00	0.00
ATOM 849	N	THR A	62	158.940	-3.474	0.862	1.00	0.00
ATOM 850	CA	THR A	62	159.585	-2.383	1.584	1.00	0.00
ATOM 851	C	THR A	62	159.088	-2.314	3.024	1.00	0.00
ATOM 852	O	THR A	62	158.277	-3.134	3.451	1.00	0.00
ATOM 853	CB	THR A	62	159.322	-1.052	0.877	1.00	0.00
ATOM 854	OG1	THR A	62	157.934	-0.864	0.664	1.00	0.00
ATOM 855	CG2	THR A	62	160.011	-0.941	-0.466	1.00	0.00
ATOM 856	H	THR A	62	157.984	-3.411	0.655	1.00	0.00
ATOM 857	HA	THR A	62	160.647	-2.573	1.591	1.00	0.00
ATOM 858	HB	THR A	62	159.682	-0.247	1.501	1.00	0.00
ATOM 859	HG1	THR A	62	157.781	0.014	0.305	1.00	0.00
ATOM 860	1HG2	THR A	62	159.343	-1.283	-1.243	1.00	0.00
ATOM 861	2HG2	THR A	62	160.903	-1.550	-0.464	1.00	0.00

ATOM 862	3HG2	THR	A	62	160.279	0.090	-0.648	1.00	0.00
ATOM 863	N	ASP	A	63	159.579	-1.328	3.767	1.00	0.00
ATOM 864	CA	ASP	A	63	159.185	-1.150	5.160	1.00	0.00
ATOM 865	C	ASP	A	63	158.586	0.236	5.382	1.00	0.00
ATOM 866	O	ASP	A	63	158.719	0.815	6.460	1.00	0.00
ATOM 867	CB	ASP	A	63	160.389	-1.351	6.082	1.00	0.00
ATOM 868	CG	ASP	A	63	161.572	-0.489	5.687	1.00	0.00
ATOM 869	OD1	ASP	A	63	162.241	-0.822	4.686	1.00	0.00
ATOM 870	OD2	ASP	A	63	161.828	0.519	6.377	1.00	0.00
ATOM 871	H	ASP	A	63	160.223	-0.704	3.369	1.00	0.00
ATOM 872	HA	ASP	A	63	158.438	-1.894	5.391	1.00	0.00
ATOM 873	1HB	ASP	A	63	160.106	-1.098	7.093	1.00	0.00
ATOM 874	2HB	ASP	A	63	160.694	-2.387	6.045	1.00	0.00
ATOM 875	N	GLY	A	64	157.927	0.761	4.354	1.00	0.00
ATOM 876	CA	GLY	A	64	157.315	2.073	4.457	1.00	0.00
ATOM 877	C	GLY	A	64	158.031	3.113	3.615	1.00	0.00
ATOM 878	O	GLY	A	64	158.120	4.278	4.002	1.00	0.00
ATOM 879	H	GLY	A	64	157.853	0.252	3.520	1.00	0.00
ATOM 880	1HA	GLY	A	64	156.288	2.007	4.131	1.00	0.00
ATOM 881	2HA	GLY	A	64	157.335	2.387	5.490	1.00	0.00
ATOM 882	N	THR	A	65	158.540	2.691	2.462	1.00	0.00
ATOM 883	CA	THR	A	65	159.250	3.594	1.565	1.00	0.00
ATOM 884	C	THR	A	65	158.857	3.338	0.113	1.00	0.00
ATOM 885	O	THR	A	65	158.795	2.191	-0.331	1.00	0.00
ATOM 886	CB	THR	A	65	160.762	3.429	1.732	1.00	0.00
ATOM 887	OG1	THR	A	65	161.140	2.074	1.562	1.00	0.00
ATOM 888	CG2	THR	A	65	161.267	3.880	3.085	1.00	0.00
ATOM 889	H	THR	A	65	158.435	1.749	2.210	1.00	0.00
ATOM 890	HA	THR	A	65	158.977	4.604	1.827	1.00	0.00

ATOM 891	HB	THR A	65	161.263	4.018	0.978	1.00	0.00
ATOM 892	HG1	THR A	65	160.699	1.533	2.222	1.00	0.00
ATOM 893	1HG2	THR A	65	160.528	3.652	3.840	1.00	0.00
ATOM 894	2HG2	THR A	65	161.445	4.945	3.066	1.00	0.00
ATOM 895	3HG2	THR A	65	162.188	3.365	3.315	1.00	0.00
ATOM 896	N	PHE A	66	158.592	4.413	-0.621	1.00	0.00
ATOM 897	CA	PHE A	66	158.205	4.306	-2.023	1.00	0.00
ATOM 898	C	PHE A	66	159.276	4.900	-2.931	1.00	0.00
ATOM 899	O	PHE A	66	159.440	6.118	-3.001	1.00	0.00
ATOM 900	CB	PHE A	66	156.869	5.014	-2.261	1.00	0.00
ATOM 901	CG	PHE A	66	156.256	4.705	-3.597	1.00	0.00
ATOM 902	CD1	PHE A	66	156.160	3.397	-4.044	1.00	0.00
ATOM 903	CD2	PHE A	66	155.777	5.724	-4.405	1.00	0.00
ATOM 904	CE1	PHE A	66	155.596	3.110	-5.272	1.00	0.00
ATOM 905	CE2	PHE A	66	155.213	5.442	-5.635	1.00	0.00
ATOM 906	CZ	PHE A	66	155.122	4.134	-6.070	1.00	0.00
ATOM 907	H	PHE A	66	158.659	5.301	-0.211	1.00	0.00
ATOM 908	HA	PHE A	66	158.092	3.257	-2.257	1.00	0.00
ATOM 909	1HB	PHE A	66	156.168	4.711	-1.497	1.00	0.00
ATOM 910	2HB	PHE A	66	157.021	6.081	-2.202	1.00	0.00
ATOM 911	HD1	PHE A	66	156.529	2.596	-3.421	1.00	0.00
ATOM 912	HD2	PHE A	66	155.847	6.746	-4.067	1.00	0.00
ATOM 913	HE1	PHE A	66	155.527	2.086	-5.609	1.00	0.00
ATOM 914	HE2	PHE A	66	154.844	6.244	-6.257	1.00	0.00
ATOM 915	HZ	PHE A	66	154.682	3.912	-7.030	1.00	0.00
ATOM 916	N	ARG A	67	160.003	4.031	-3.626	1.00	0.00
ATOM 917	CA	ARG A	67	161.060	4.468	-4.531	1.00	0.00
ATOM 918	C	ARG A	67	162.112	5.285	-3.786	1.00	0.00
ATOM 919	O	ARG A	67	162.579	6.313	-4.279	1.00	0.00

ATOM 920	CB	ARG A	67	160.472	5.294	-5.677	1.00	0.00
ATOM 921	CG	ARG A	67	159.402	4.559	-6.468	1.00	0.00
ATOM 922	CD	ARG A	67	158.879	5.405	-7.619	1.00	0.00
ATOM 923	NE	ARG A	67	159.730	5.304	-8.804	1.00	0.00
ATOM 924	CZ	ARG A	67	160.781	6.089	-9.035	1.00	0.00
ATOM 925	NH1	ARG A	67	161.122	7.033	-8.166	1.00	0.00
ATOM 926	NH2	ARG A	67	161.496	5.927	-10.139	1.00	0.00
ATOM 927	H	ARG A	67	159.826	3.073	-3.528	1.00	0.00
ATOM 928	HA	ARG A	67	161.531	3.586	-4.941	1.00	0.00
ATOM 929	1HB	ARG A	67	160.033	6.194	-5.269	1.00	0.00
ATOM 930	2HB	ARG A	67	161.266	5.567	-6.354	1.00	0.00
ATOM 931	1HG	ARG A	67	159.823	3.650	-6.867	1.00	0.00
ATOM 932	2HG	ARG A	67	158.581	4.319	-5.808	1.00	0.00
ATOM 933	1HD	ARG A	67	157.886	5.066	-7.874	1.00	0.00
ATOM 934	2HD	ARG A	67	158.835	6.435	-7.303	1.00	0.00
ATOM 935	HE	ARG A	67	159.505	4.616	-9.464	1.00	0.00
ATOM 936	1HH1	ARG A	67	160.590	7.162	-7.331	1.00	0.00
ATOM 937	2HH1	ARG A	67	161.913	7.617	-8.349	1.00	0.00
ATOM 938	1HH2	ARG A	67	161.246	5.217	-10.797	1.00	0.00
ATOM 939	2HH2	ARG A	67	162.286	6.515	-10.315	1.00	0.00
ATOM 940	N	GLY A	68	162.481	4.821	-2.598	1.00	0.00
ATOM 941	CA	GLY A	68	163.474	5.520	-1.804	1.00	0.00
ATOM 942	C	GLY A	68	162.913	6.760	-1.135	1.00	0.00
ATOM 943	O	GLY A	68	163.640	7.721	-0.885	1.00	0.00
ATOM 944	H	GLY A	68	162.075	3.997	-2.255	1.00	0.00
ATOM 945	1HA	GLY A	68	163.847	4.851	-1.043	1.00	0.00
ATOM 946	2HA	GLY A	68	164.293	5.810	-2.446	1.00	0.00
ATOM 947	N	THR A	69	161.616	6.737	-0.846	1.00	0.00
ATOM 948	CA	THR A	69	160.956	7.867	-0.202	1.00	0.00

ATOM 949	C	THR A	69	160.140	7.406	1.001	1.00	0.00
ATOM 950	O	THR A	69	158.983	7.009	0.864	1.00	0.00
ATOM 951	CB	THR A	69	160.050	8.591	-1.201	1.00	0.00
ATOM 952	OG1	THR A	69	160.750	8.872	-2.399	1.00	0.00
ATOM 953	CG2	THR A	69	159.500	9.897	-0.671	1.00	0.00
ATOM 954	H	THR A	69	161.090	5.941	-1.071	1.00	0.00
ATOM 955	HA	THR A	69	161.721	8.549	0.136	1.00	0.00
ATOM 956	HB	THR A	69	159.212	7.951	-1.439	1.00	0.00
ATOM 957	HG1	THR A	69	160.631	8.148	-3.018	1.00	0.00
ATOM 958	1HG2	THR A	69	158.639	9.701	-0.050	1.00	0.00
ATOM 959	2HG2	THR A	69	159.211	10.528	-1.499	1.00	0.00
ATOM 960	3HG2	THR A	69	160.260	10.396	-0.087	1.00	0.00
ATOM 961	N	ARG A	70	160.751	7.462	2.180	1.00	0.00
ATOM 962	CA	ARG A	70	160.082	7.049	3.408	1.00	0.00
ATOM 963	C	ARG A	70	158.900	7.963	3.718	1.00	0.00
ATOM 964	O	ARG A	70	159.052	9.181	3.807	1.00	0.00
ATOM 965	CB	ARG A	70	161.067	7.056	4.578	1.00	0.00
ATOM 966	CG	ARG A	70	160.519	6.409	5.839	1.00	0.00
ATOM 967	CD	ARG A	70	161.329	6.799	7.064	1.00	0.00
ATOM 968	NE	ARG A	70	162.742	6.459	6.918	1.00	0.00
ATOM 969	CZ	ARG A	70	163.611	6.450	7.926	1.00	0.00
ATOM 970	NH1	ARG A	70	163.216	6.760	9.154	1.00	0.00
ATOM 971	NH2	ARG A	70	164.877	6.127	7.706	1.00	0.00
ATOM 972	H	ARG A	70	161.674	7.788	2.225	1.00	0.00
ATOM 973	HA	ARG A	70	159.715	6.044	3.264	1.00	0.00
ATOM 974	1HB	ARG A	70	161.960	6.524	4.285	1.00	0.00
ATOM 975	2HB	ARG A	70	161.327	8.080	4.809	1.00	0.00
ATOM 976	1HG	ARG A	70	159.496	6.727	5.980	1.00	0.00
ATOM 977	2HG	ARG A	70	160.552	5.336	5.724	1.00	0.00

ATOM 978	1HD	ARG	A	70	161.239	7.865	7.214	1.00	0.00
ATOM 979	2HD	ARG	A	70	160.930	6.281	7.924	1.00	0.00
ATOM 980	HE	ARG	A	70	163.060	6.225	6.021	1.00	0.00
ATOM 981	1HH1	ARG	A	70	162.262	7.004	9.328	1.00	0.00
ATOM 982	2HH1	ARG	A	70	163.874	6.751	9.908	1.00	0.00
ATOM 983	1HH2	ARG	A	70	165.181	5.892	6.782	1.00	0.00
ATOM 984	2HH2	ARG	A	70	165.532	6.120	8.463	1.00	0.00
ATOM 985	N	TYR	A	71	157.724	7.366	3.883	1.00	0.00
ATOM 986	CA	TYR	A	71	156.516	8.124	4.185	1.00	0.00
ATOM 987	C	TYR	A	71	156.011	7.805	5.588	1.00	0.00
ATOM 988	O	TYR	A	71	155.523	8.684	6.298	1.00	0.00
ATOM 989	CB	TYR	A	71	155.426	7.819	3.156	1.00	0.00
ATOM 990	CG	TYR	A	71	155.667	8.463	1.809	1.00	0.00
ATOM 991	CD1	TYR	A	71	155.569	7.724	0.637	1.00	0.00
ATOM 992	CD2	TYR	A	71	155.992	9.810	1.710	1.00	0.00
ATOM 993	CE1	TYR	A	71	155.787	8.309	-0.596	1.00	0.00
ATOM 994	CE2	TYR	A	71	156.212	10.402	0.481	1.00	0.00
ATOM 995	CZ	TYR	A	71	156.109	9.648	-0.669	1.00	0.00
ATOM 996	OH	TYR	A	71	156.328	10.234	-1.894	1.00	0.00
ATOM 997	H	TYR	A	71	157.668	6.390	3.801	1.00	0.00
ATOM 998	HA	TYR	A	71	156.762	9.174	4.134	1.00	0.00
ATOM 999	1HB	TYR	A	71	155.371	6.751	3.007	1.00	0.00
ATOM 1000	2HB	TYR	A	71	154.479	8.174	3.530	1.00	0.00
ATOM 1001	HD1	TYR	A	71	155.318	6.675	0.696	1.00	0.00
ATOM 1002	HD2	TYR	A	71	156.073	10.399	2.612	1.00	0.00
ATOM 1003	HE1	TYR	A	71	155.707	7.718	-1.496	1.00	0.00
ATOM 1004	HE2	TYR	A	71	156.464	11.451	0.424	1.00	0.00
ATOM 1005	HH	TYR	A	71	155.544	10.138	-2.440	1.00	0.00
ATOM 1006	N	PHE	A	72	156.134	6.541	5.981	1.00	0.00

ATOM 1007	CA	PHE A	72	155.691	6.104	7.299	1.00	0.00
ATOM 1008	C	PHE A	72	156.581	4.984	7.826	1.00	0.00
ATOM 1009	O	PHE A	72	157.396	4.427	7.090	1.00	0.00
ATOM 1010	CB	PHE A	72	154.237	5.631	7.242	1.00	0.00
ATOM 1011	CG	PHE A	72	153.990	4.570	6.207	1.00	0.00
ATOM 1012	CD1	PHE A	72	154.023	3.228	6.551	1.00	0.00
ATOM 1013	CD2	PHE A	72	153.726	4.916	4.891	1.00	0.00
ATOM 1014	CE1	PHE A	72	153.796	2.250	5.600	1.00	0.00
ATOM 1015	CE2	PHE A	72	153.499	3.942	3.937	1.00	0.00
ATOM 1016	CZ	PHE A	72	153.533	2.608	4.292	1.00	0.00
ATOM 1017	H	PHE A	72	156.532	5.887	5.369	1.00	0.00
ATOM 1018	HA	PHE A	72	155.759	6.948	7.969	1.00	0.00
ATOM 1019	1HB	PHE A	72	153.959	5.226	8.204	1.00	0.00
ATOM 1020	2HB	PHE A	72	153.600	6.474	7.014	1.00	0.00
ATOM 1021	HD1	PHE A	72	154.227	2.947	7.573	1.00	0.00
ATOM 1022	HD2	PHE A	72	153.698	5.959	4.613	1.00	0.00
ATOM 1023	HE1	PHE A	72	153.824	1.207	5.880	1.00	0.00
ATOM 1024	HE2	PHE A	72	153.294	4.225	2.915	1.00	0.00
ATOM 1025	HZ	PHE A	72	153.355	1.846	3.548	1.00	0.00
ATOM 1026	N	THR A	73	156.421	4.658	9.104	1.00	0.00
ATOM 1027	CA	THR A	73	157.213	3.604	9.729	1.00	0.00
ATOM 1028	C	THR A	73	156.352	2.379	10.019	1.00	0.00
ATOM 1029	O	THR A	73	155.488	2.407	10.896	1.00	0.00
ATOM 1030	CB	THR A	73	157.849	4.113	11.023	1.00	0.00
ATOM 1031	OG1	THR A	73	158.357	5.424	10.851	1.00	0.00
ATOM 1032	CG2	THR A	73	158.984	3.242	11.515	1.00	0.00
ATOM 1033	H	THR A	73	155.757	5.138	9.641	1.00	0.00
ATOM 1034	HA	THR A	73	157.995	3.324	9.040	1.00	0.00
ATOM 1035	HB	THR A	73	157.094	4.141	11.797	1.00	0.00

ATOM 1036	HG1	THR A	73	158.929	5.447	10.079	1.00	0.00
ATOM 1037	1HG2	THR A	73	159.652	3.023	10.695	1.00	0.00
ATOM 1038	2HG2	THR A	73	158.584	2.319	11.909	1.00	0.00
ATOM 1039	3HG2	THR A	73	159.526	3.760	12.292	1.00	0.00
ATOM 1040	N	CYS A	74	156.595	1.303	9.277	1.00	0.00
ATOM 1041	CA	CYS A	74	155.842	0.066	9.456	1.00	0.00
ATOM 1042	C	CYS A	74	156.782	-1.131	9.560	1.00	0.00
ATOM 1043	O	CYS A	74	158.003	-0.976	9.551	1.00	0.00
ATOM 1044	CB	CYS A	74	154.870	-0.135	8.292	1.00	0.00
ATOM 1045	SG	CYS A	74	153.244	0.612	8.553	1.00	0.00
ATOM 1046	H	CYS A	74	157.296	1.341	8.594	1.00	0.00
ATOM 1047	HA	CYS A	74	155.281	0.149	10.373	1.00	0.00
ATOM 1048	1HB	CYS A	74	155.292	0.302	7.400	1.00	0.00
ATOM 1049	2HB	CYS A	74	154.725	-1.194	8.134	1.00	0.00
ATOM 1050	HG	CYS A	74	153.305	1.198	9.311	1.00	0.00
ATOM 1051	N	ALA A	75	156.205	-2.324	9.660	1.00	0.00
ATOM 1052	CA	ALA A	75	156.991	-3.546	9.768	1.00	0.00
ATOM 1053	C	ALA A	75	157.870	-3.743	8.538	1.00	0.00
ATOM 1054	O	ALA A	75	157.664	-3.105	7.506	1.00	0.00
ATOM 1055	CB	ALA A	75	156.076	-4.746	9.962	1.00	0.00
ATOM 1056	H	ALA A	75	155.227	-2.382	9.663	1.00	0.00
ATOM 1057	HA	ALA A	75	157.623	-3.461	10.641	1.00	0.00
ATOM 1058	1HB	ALA A	75	156.517	-5.615	9.495	1.00	0.00
ATOM 1059	2HB	ALA A	75	155.116	-4.544	9.511	1.00	0.00
ATOM 1060	3HB	ALA A	75	155.945	-4.933	11.018	1.00	0.00
ATOM 1061	N	LEU A	76	158.852	-4.630	8.655	1.00	0.00
ATOM 1062	CA	LEU A	76	159.764	-4.911	7.552	1.00	0.00
ATOM 1063	C	LEU A	76	159.147	-5.906	6.577	1.00	0.00
ATOM 1064	O	LEU A	76	158.533	-6.893	6.985	1.00	0.00

ATOM 1065	CB	LEU A	76	161.090	-5.456	8.085	1.00	0.00
ATOM 1066	CG	LEU A	76	162.125	-4.392	8.458	1.00	0.00
ATOM 1067	CD1	LEU A	76	162.974	-4.861	9.630	1.00	0.00
ATOM 1068	CD2	LEU A	76	163.002	-4.060	7.261	1.00	0.00
ATOM 1069	H	LEU A	76	158.967	-5.108	9.503	1.00	0.00
ATOM 1070	HA	LEU A	76	159.950	-3.983	7.031	1.00	0.00
ATOM 1071	1HB	LEU A	76	160.884	-6.052	8.962	1.00	0.00
ATOM 1072	2HB	LEU A	76	161.523	-6.096	7.330	1.00	0.00
ATOM 1073	HG	LEU A	76	161.611	-3.490	8.758	1.00	0.00
ATOM 1074	1HD1	LEU A	76	163.628	-5.656	9.304	1.00	0.00
ATOM 1075	2HD1	LEU A	76	162.331	-5.223	10.418	1.00	0.00
ATOM 1076	3HD1	LEU A	76	163.566	-4.036	9.997	1.00	0.00
ATOM 1077	1HD2	LEU A	76	163.237	-3.007	7.267	1.00	0.00
ATOM 1078	2HD2	LEU A	76	162.476	-4.307	6.350	1.00	0.00
ATOM 1079	3HD2	LEU A	76	163.916	-4.633	7.314	1.00	0.00
ATOM 1080	N	LYS A	77	159.313	-5.643	5.285	1.00	0.00
ATOM 1081	CA	LYS A	77	158.772	-6.517	4.250	1.00	0.00
ATOM 1082	C	LYS A	77	157.252	-6.603	4.351	1.00	0.00
ATOM 1083	O	LYS A	77	156.665	-7.666	4.149	1.00	0.00
ATOM 1084	CB	LYS A	77	159.383	-7.915	4.364	1.00	0.00
ATOM 1085	CG	LYS A	77	160.885	-7.943	4.138	1.00	0.00
ATOM 1086	CD	LYS A	77	161.226	-7.877	2.657	1.00	0.00
ATOM 1087	CE	LYS A	77	162.671	-7.456	2.437	1.00	0.00
ATOM 1088	NZ	LYS A	77	162.874	-6.860	1.088	1.00	0.00
ATOM 1089	H	LYS A	77	159.811	-4.842	5.021	1.00	0.00
ATOM 1090	HA	LYS A	77	159.034	-6.097	3.291	1.00	0.00
ATOM 1091	1HB	LYS A	77	159.182	-8.303	5.352	1.00	0.00
ATOM 1092	2HB	LYS A	77	158.918	-8.559	3.632	1.00	0.00
ATOM 1093	1HG	LYS A	77	161.331	-7.096	4.637	1.00	0.00

ATOM 1094	2HG	LYS A	77	161.285	-8.858	4.550	1.00	0.00
ATOM 1095	1HD	LYS A	77	161.075	-8.852	2.220	1.00	0.00
ATOM 1096	2HD	LYS A	77	160.574	-7.160	2.180	1.00	0.00
ATOM 1097	1HE	LYS A	77	162.937	-6.726	3.187	1.00	0.00
ATOM 1098	2HE	LYS A	77	163.304	-8.324	2.538	1.00	0.00
ATOM 1099	1HZ	LYS A	77	163.161	-7.597	0.412	1.00	0.00
ATOM 1100	2HZ	LYS A	77	163.618	-6.134	1.127	1.00	0.00
ATOM 1101	3HZ	LYS A	77	161.993	-6.420	0.753	1.00	0.00
ATOM 1102	N	LYS A	78	156.621	-5.477	4.666	1.00	0.00
ATOM 1103	CA	LYS A	78	155.169	-5.426	4.795	1.00	0.00
ATOM 1104	C	LYS A	78	154.633	-4.057	4.383	1.00	0.00
ATOM 1105	O	LYS A	78	153.726	-3.518	5.017	1.00	0.00
ATOM 1106	CB	LYS A	78	154.754	-5.738	6.234	1.00	0.00
ATOM 1107	CG	LYS A	78	155.238	-7.092	6.726	1.00	0.00
ATOM 1108	CD	LYS A	78	154.904	-7.305	8.194	1.00	0.00
ATOM 1109	CE	LYS A	78	153.702	-8.221	8.365	1.00	0.00
ATOM 1110	NZ	LYS A	78	152.966	-7.941	9.629	1.00	0.00
ATOM 1111	H	LYS A	78	157.143	-4.661	4.816	1.00	0.00
ATOM 1112	HA	LYS A	78	154.751	-6.174	4.138	1.00	0.00
ATOM 1113	1HB	LYS A	78	155.155	-4.977	6.886	1.00	0.00
ATOM 1114	2HB	LYS A	78	153.675	-5.722	6.296	1.00	0.00
ATOM 1115	1HG	LYS A	78	154.764	-7.868	6.143	1.00	0.00
ATOM 1116	2HG	LYS A	78	156.309	-7.148	6.598	1.00	0.00
ATOM 1117	1HD	LYS A	78	155.755	-7.749	8.687	1.00	0.00
ATOM 1118	2HD	LYS A	78	154.683	-6.349	8.645	1.00	0.00
ATOM 1119	1HE	LYS A	78	153.033	-8.077	7.530	1.00	0.00
ATOM 1120	2HE	LYS A	78	154.047	-9.245	8.378	1.00	0.00
ATOM 1121	1HZ	LYS A	78	151.944	-8.061	9.480	1.00	0.00
ATOM 1122	2HZ	LYS A	78	153.148	-6.966	9.941	1.00	0.00

ATOM 1123	3HZ	LYS A	78	153.277	-8.595	10.376	1.00	0.00
ATOM 1124	N	ALA A	79	155.201	-3.502	3.317	1.00	0.00
ATOM 1125	CA	ALA A	79	154.780	-2.198	2.821	1.00	0.00
ATOM 1126	C	ALA A	79	154.611	-2.214	1.306	1.00	0.00
ATOM 1127	O	ALA A	79	155.588	-2.325	0.564	1.00	0.00
ATOM 1128	CB	ALA A	79	155.783	-1.130	3.231	1.00	0.00
ATOM 1129	H	ALA A	79	155.919	-3.981	2.854	1.00	0.00
ATOM 1130	HA	ALA A	79	153.829	-1.959	3.277	1.00	0.00
ATOM 1131	1HB	ALA A	79	155.800	-1.045	4.308	1.00	0.00
ATOM 1132	2HB	ALA A	79	155.496	-0.181	2.800	1.00	0.00
ATOM 1133	3HB	ALA A	79	156.766	-1.404	2.877	1.00	0.00
ATOM 1134	N	LEU A	80	153.367	-2.104	0.853	1.00	0.00
ATOM 1135	CA	LEU A	80	153.069	-2.107	-0.575	1.00	0.00
ATOM 1136	C	LEU A	80	152.263	-0.873	-0.964	1.00	0.00
ATOM 1137	O	LEU A	80	151.180	-0.634	-0.430	1.00	0.00
ATOM 1138	CB	LEU A	80	152.301	-3.375	-0.954	1.00	0.00
ATOM 1139	CG	LEU A	80	151.870	-3.458	-2.419	1.00	0.00
ATOM 1140	CD1	LEU A	80	153.080	-3.657	-3.320	1.00	0.00
ATOM 1141	CD2	LEU A	80	150.867	-4.584	-2.615	1.00	0.00
ATOM 1142	H	LEU A	80	152.631	-2.020	1.493	1.00	0.00
ATOM 1143	HA	LEU A	80	154.008	-2.092	-1.110	1.00	0.00
ATOM 1144	1HB	LEU A	80	152.927	-4.228	-0.734	1.00	0.00
ATOM 1145	2HB	LEU A	80	151.416	-3.432	-0.339	1.00	0.00
ATOM 1146	HG	LEU A	80	151.393	-2.531	-2.701	1.00	0.00
ATOM 1147	1HD1	LEU A	80	153.819	-4.251	-2.805	1.00	0.00
ATOM 1148	2HD1	LEU A	80	153.502	-2.695	-3.573	1.00	0.00
ATOM 1149	3HD1	LEU A	80	152.775	-4.164	-4.224	1.00	0.00
ATOM 1150	1HD2	LEU A	80	150.987	-5.007	-3.602	1.00	0.00
ATOM 1151	2HD2	LEU A	80	149.865	-4.195	-2.510	1.00	0.00

ATOM 1152	3HD2	LEU A	80	151.036	-5.351	-1.873	1.00	0.00
ATOM 1153	N	PHE A	81	152.797	-0.093	-1.898	1.00	0.00
ATOM 1154	CA	PHE A	81	152.126	1.117	-2.359	1.00	0.00
ATOM 1155	C	PHE A	81	151.269	0.830	-3.589	1.00	0.00
ATOM 1156	O	PHE A	81	151.629	0.006	-4.429	1.00	0.00
ATOM 1157	CB	PHE A	81	153.153	2.204	-2.682	1.00	0.00
ATOM 1158	CG	PHE A	81	153.880	2.720	-1.472	1.00	0.00
ATOM 1159	CD1	PHE A	81	153.473	3.888	-0.849	1.00	0.00
ATOM 1160	CD2	PHE A	81	154.971	2.035	-0.960	1.00	0.00
ATOM 1161	CE1	PHE A	81	154.140	4.365	0.264	1.00	0.00
ATOM 1162	CE2	PHE A	81	155.642	2.508	0.152	1.00	0.00
ATOM 1163	CZ	PHE A	81	155.226	3.673	0.764	1.00	0.00
ATOM 1164	H	PHE A	81	153.662	-0.337	-2.287	1.00	0.00
ATOM 1165	HA	PHE A	81	151.485	1.465	-1.562	1.00	0.00
ATOM 1166	1HB	PHE A	81	153.887	1.805	-3.365	1.00	0.00
ATOM 1167	2HB	PHE A	81	152.649	3.038	-3.148	1.00	0.00
ATOM 1168	HD1	PHE A	81	152.624	4.429	-1.239	1.00	0.00
ATOM 1169	HD2	PHE A	81	155.296	1.124	-1.438	1.00	0.00
ATOM 1170	HE1	PHE A	81	153.814	5.277	0.740	1.00	0.00
ATOM 1171	HE2	PHE A	81	156.491	1.965	0.542	1.00	0.00
ATOM 1172	HZ	PHE A	81	155.749	4.044	1.634	1.00	0.00
ATOM 1173	N	VAL A	82	150.136	1.517	-3.687	1.00	0.00
ATOM 1174	CA	VAL A	82	149.229	1.335	-4.815	1.00	0.00
ATOM 1175	C	VAL A	82	148.350	2.565	-5.016	1.00	0.00
ATOM 1176	O	VAL A	82	148.273	3.435	-4.148	1.00	0.00
ATOM 1177	CB	VAL A	82	148.328	0.102	-4.618	1.00	0.00
ATOM 1178	CG1	VAL A	82	149.141	-1.178	-4.733	1.00	0.00
ATOM 1179	CG2	VAL A	82	147.615	0.170	-3.276	1.00	0.00
ATOM 1180	H	VAL A	82	149.904	2.160	-2.986	1.00	0.00

ATOM 1181	HA	VAL A	82	149.826	1.182	-5.701	1.00	0.00
ATOM 1182	HB	VAL A	82	147.581	0.099	-5.398	1.00	0.00
ATOM 1183	1HG1	VAL A	82	149.833	-1.241	-3.907	1.00	0.00
ATOM 1184	2HG1	VAL A	82	149.689	-1.174	-5.664	1.00	0.00
ATOM 1185	3HG1	VAL A	82	148.477	-2.029	-4.712	1.00	0.00
ATOM 1186	1HG2	VAL A	82	147.228	1.168	-3.124	1.00	0.00
ATOM 1187	2HG2	VAL A	82	148.311	-0.070	-2.486	1.00	0.00
ATOM 1188	3HG2	VAL A	82	146.800	-0.537	-3.265	1.00	0.00
ATOM 1189	N	LYS A	83	147.689	2.631	-6.167	1.00	0.00
ATOM 1190	CA	LYS A	83	146.816	3.755	-6.484	1.00	0.00
ATOM 1191	C	LYS A	83	145.586	3.760	-5.582	1.00	0.00
ATOM 1192	O	LYS A	83	144.833	2.788	-5.534	1.00	0.00
ATOM 1193	CB	LYS A	83	146.387	3.697	-7.951	1.00	0.00
ATOM 1194	CG	LYS A	83	147.548	3.777	-8.928	1.00	0.00
ATOM 1195	CD	LYS A	83	147.109	3.447	-10.345	1.00	0.00
ATOM 1196	CE	LYS A	83	147.812	4.326	-11.366	1.00	0.00
ATOM 1197	NZ	LYS A	83	148.149	3.576	-12.607	1.00	0.00
ATOM 1198	H	LYS A	83	147.792	1.907	-6.819	1.00	0.00
ATOM 1199	HA	LYS A	83	147.371	4.665	-6.316	1.00	0.00
ATOM 1200	1HB	LYS A	83	145.862	2.768	-8.125	1.00	0.00
ATOM 1201	2HB	LYS A	83	145.717	4.521	-8.152	1.00	0.00
ATOM 1202	1HG	LYS A	83	147.951	4.779	-8.912	1.00	0.00
ATOM 1203	2HG	LYS A	83	148.311	3.076	-8.624	1.00	0.00
ATOM 1204	1HD	LYS A	83	147.343	2.414	-10.553	1.00	0.00
ATOM 1205	2HD	LYS A	83	146.042	3.600	-10.425	1.00	0.00
ATOM 1206	1HE	LYS A	83	147.164	5.151	-11.620	1.00	0.00
ATOM 1207	2HE	LYS A	83	148.723	4.708	-10.927	1.00	0.00
ATOM 1208	1HZ	LYS A	83	148.769	4.150	-13.214	1.00	0.00
ATOM 1209	2HZ	LYS A	83	147.281	3.349	-13.134	1.00	0.00

ATOM 1210	3HZ	LYS A	83	148.638	2.690	-12.368	1.00	0.00
ATOM 1211	N	LEU A	84	145.391	4.864	-4.868	1.00	0.00
ATOM 1212	CA	LEU A	84	144.255	5.003	-3.966	1.00	0.00
ATOM 1213	C	LEU A	84	142.937	4.838	-4.717	1.00	0.00
ATOM 1214	O	LEU A	84	141.972	4.290	-4.184	1.00	0.00
ATOM 1215	CB	LEU A	84	144.298	6.366	-3.273	1.00	0.00
ATOM 1216	CG	LEU A	84	143.095	6.680	-2.379	1.00	0.00
ATOM 1217	CD1	LEU A	84	143.181	5.900	-1.078	1.00	0.00
ATOM 1218	CD2	LEU A	84	143.014	8.174	-2.104	1.00	0.00
ATOM 1219	H	LEU A	84	146.029	5.603	-4.951	1.00	0.00
ATOM 1220	HA	LEU A	84	144.328	4.227	-3.218	1.00	0.00
ATOM 1221	1HB	LEU A	84	145.191	6.411	-2.668	1.00	0.00
ATOM 1222	2HB	LEU A	84	144.361	7.129	-4.034	1.00	0.00
ATOM 1223	HG	LEU A	84	142.190	6.382	-2.888	1.00	0.00
ATOM 1224	1HD1	LEU A	84	142.206	5.865	-0.613	1.00	0.00
ATOM 1225	2HD1	LEU A	84	143.879	6.386	-0.412	1.00	0.00
ATOM 1226	3HD1	LEU A	84	143.518	4.894	-1.282	1.00	0.00
ATOM 1227	1HD2	LEU A	84	142.869	8.704	-3.034	1.00	0.00
ATOM 1228	2HD2	LEU A	84	143.931	8.505	-1.639	1.00	0.00
ATOM 1229	3HD2	LEU A	84	142.183	8.373	-1.443	1.00	0.00
ATOM 1230	N	LYS A	85	142.905	5.316	-5.956	1.00	0.00
ATOM 1231	CA	LYS A	85	141.705	5.221	-6.780	1.00	0.00
ATOM 1232	C	LYS A	85	141.354	3.764	-7.067	1.00	0.00
ATOM 1233	O	LYS A	85	140.195	3.432	-7.310	1.00	0.00
ATOM 1234	CB	LYS A	85	141.902	5.980	-8.094	1.00	0.00
ATOM 1235	CG	LYS A	85	143.103	5.507	-8.896	1.00	0.00
ATOM 1236	CD	LYS A	85	143.831	6.670	-9.549	1.00	0.00
ATOM 1237	CE	LYS A	85	144.950	6.188	-10.458	1.00	0.00
ATOM 1238	NZ	LYS A	85	145.785	7.315	-10.956	1.00	0.00

ATOM 1239	H	LYS A	85	143.706	5.743	-6.326	1.00	0.00
ATOM 1240	HA	LYS A	85	140.892	5.673	-6.232	1.00	0.00
ATOM 1241	1HB	LYS A	85	141.017	5.856	-8.702	1.00	0.00
ATOM 1242	2HB	LYS A	85	142.032	7.029	-7.874	1.00	0.00
ATOM 1243	1HG	LYS A	85	143.785	4.993	-8.236	1.00	0.00
ATOM 1244	2HG	LYS A	85	142.764	4.828	-9.666	1.00	0.00
ATOM 1245	1HD	LYS A	85	143.127	7.241	-10.135	1.00	0.00
ATOM 1246	2HD	LYS A	85	144.251	7.298	-8.777	1.00	0.00
ATOM 1247	1HE	LYS A	85	145.576	5.504	-9.904	1.00	0.00
ATOM 1248	2HE	LYS A	85	144.514	5.674	-11.301	1.00	0.00
ATOM 1249	1HZ	LYS A	85	146.781	7.021	-11.021	1.00	0.00
ATOM 1250	2HZ	LYS A	85	145.717	8.125	-10.308	1.00	0.00
ATOM 1251	3HZ	LYS A	85	145.460	7.611	-11.898	1.00	0.00
ATOM 1252	N	SER A	86	142.364	2.898	-7.038	1.00	0.00
ATOM 1253	CA	SER A	86	142.159	1.478	-7.294	1.00	0.00
ATOM 1254	C	SER A	86	142.129	0.688	-5.991	1.00	0.00
ATOM 1255	O	SER A	86	142.573	-0.459	-5.938	1.00	0.00
ATOM 1256	CB	SER A	86	143.263	0.939	-8.207	1.00	0.00
ATOM 1257	OG	SER A	86	143.111	1.420	-9.531	1.00	0.00
ATOM 1258	H	SER A	86	143.268	3.222	-6.838	1.00	0.00
ATOM 1259	HA	SER A	86	141.206	1.365	-7.791	1.00	0.00
ATOM 1260	1HB	SER A	86	144.224	1.255	-7.830	1.00	0.00
ATOM 1261	2HB	SER A	86	143.218	-0.140	-8.222	1.00	0.00
ATOM 1262	HG	SER A	86	142.913	2.359	-9.509	1.00	0.00
ATOM 1263	N	CYS A	87	141.602	1.309	-4.940	1.00	0.00
ATOM 1264	CA	CYS A	87	141.513	0.663	-3.636	1.00	0.00
ATOM 1265	C	CYS A	87	140.058	0.429	-3.243	1.00	0.00
ATOM 1266	O	CYS A	87	139.167	1.173	-3.652	1.00	0.00
ATOM 1267	CB	CYS A	87	142.209	1.517	-2.573	1.00	0.00

ATOM 1268	SG	CYS A	87	144.014	1.478	-2.662	1.00	0.00
ATOM 1269	H	CYS A	87	141.265	2.222	-5.046	1.00	0.00
ATOM 1270	HA	CYS A	87	142.014	-0.290	-3.702	1.00	0.00
ATOM 1271	1HB	CYS A	87	141.897	2.545	-2.687	1.00	0.00
ATOM 1272	2HB	CYS A	87	141.920	1.165	-1.594	1.00	0.00
ATOM 1273	HG	CYS A	87	144.348	2.278	-2.249	1.00	0.00
ATOM 1274	N	ARG A	88	139.824	-0.611	-2.450	1.00	0.00
ATOM 1275	CA	ARG A	88	138.477	-0.944	-2.004	1.00	0.00
ATOM 1276	C	ARG A	88	138.411	-1.018	-0.478	1.00	0.00
ATOM 1277	O	ARG A	88	139.235	-1.682	0.152	1.00	0.00
ATOM 1278	CB	ARG A	88	138.032	-2.277	-2.610	1.00	0.00
ATOM 1279	CG	ARG A	88	137.252	-2.125	-3.905	1.00	0.00
ATOM 1280	CD	ARG A	88	135.768	-1.931	-3.642	1.00	0.00
ATOM 1281	NE	ARG A	88	134.945	-2.463	-4.726	1.00	0.00
ATOM 1282	CZ	ARG A	88	134.850	-1.900	-5.928	1.00	0.00
ATOM 1283	NH1	ARG A	88	135.523	-0.790	-6.205	1.00	0.00
ATOM 1284	NH2	ARG A	88	134.079	-2.449	-6.857	1.00	0.00
ATOM 1285	H	ARG A	88	140.576	-1.169	-2.158	1.00	0.00
ATOM 1286	HA	ARG A	88	137.814	-0.165	-2.346	1.00	0.00
ATOM 1287	1HB	ARG A	88	138.907	-2.877	-2.809	1.00	0.00
ATOM 1288	2HB	ARG A	88	137.407	-2.794	-1.896	1.00	0.00
ATOM 1289	1HG	ARG A	88	137.628	-1.268	-4.442	1.00	0.00
ATOM 1290	2HG	ARG A	88	137.390	-3.015	-4.503	1.00	0.00
ATOM 1291	1HD	ARG A	88	135.508	-2.439	-2.724	1.00	0.00
ATOM 1292	2HD	ARG A	88	135.570	-0.875	-3.536	1.00	0.00
ATOM 1293	HE	ARG A	88	134.438	-3.282	-4.549	1.00	0.00
ATOM 1294	1HH1	ARG A	88	136.106	-0.371	-5.509	1.00	0.00
ATOM 1295	2HH1	ARG A	88	135.447	-0.372	-7.110	1.00	0.00
ATOM 1296	1HH2	ARG A	88	133.570	-3.286	-6.655	1.00	0.00

ATOM 1297	2HH2	ARG A	88	134.007	-2.026	-7.761	1.00	0.00
ATOM 1298	N	PRO A	89	137.428	-0.338	0.142	1.00	0.00
ATOM 1299	CA	PRO A	89	137.268	-0.339	1.600	1.00	0.00
ATOM 1300	C	PRO A	89	137.186	-1.750	2.172	1.00	0.00
ATOM 1301	O	PRO A	89	136.385	-2.567	1.720	1.00	0.00
ATOM 1302	CB	PRO A	89	135.947	0.404	1.818	1.00	0.00
ATOM 1303	CG	PRO A	89	135.784	1.254	0.607	1.00	0.00
ATOM 1304	CD	PRO A	89	136.397	0.481	-0.526	1.00	0.00
ATOM 1305	HA	PRO A	89	138.071	0.198	2.085	1.00	0.00
ATOM 1306	1HB	PRO A	89	135.142	-0.311	1.912	1.00	0.00
ATOM 1307	2HB	PRO A	89	136.011	1.003	2.714	1.00	0.00
ATOM 1308	1HG	PRO A	89	134.733	1.426	0.418	1.00	0.00
ATOM 1309	2HG	PRO A	89	136.300	2.192	0.744	1.00	0.00
ATOM 1310	1HD	PRO A	89	135.657	-0.144	-1.003	1.00	0.00
ATOM 1311	2HD	PRO A	89	136.845	1.153	-1.242	1.00	0.00
ATOM 1312	N	ASP A	90	138.017	-2.028	3.171	1.00	0.00
ATOM 1313	CA	ASP A	90	138.036	-3.340	3.807	1.00	0.00
ATOM 1314	C	ASP A	90	137.323	-3.300	5.154	1.00	0.00
ATOM 1315	O	ASP A	90	137.873	-2.820	6.145	1.00	0.00
ATOM 1316	CB	ASP A	90	139.477	-3.819	3.993	1.00	0.00
ATOM 1317	CG	ASP A	90	139.595	-5.329	3.941	1.00	0.00
ATOM 1318	OD1	ASP A	90	138.798	-5.963	3.219	1.00	0.00
ATOM 1319	OD2	ASP A	90	140.484	-5.879	4.626	1.00	0.00
ATOM 1320	H	ASP A	90	138.632	-1.333	3.488	1.00	0.00
ATOM 1321	HA	ASP A	90	137.517	-4.029	3.158	1.00	0.00
ATOM 1322	1HB	ASP A	90	140.092	-3.402	3.209	1.00	0.00
ATOM 1323	2HB	ASP A	90	139.842	-3.479	4.951	1.00	0.00
ATOM 1324	N	SER A	91	136.093	-3.806	5.183	1.00	0.00
ATOM 1325	CA	SER A	91	135.304	-3.827	6.409	1.00	0.00

ATOM 1326	C	SER A	91	135.387	-5.191	7.088	1.00	0.00
ATOM 1327	O	SER A	91	134.473	-5.595	7.806	1.00	0.00
ATOM 1328	CB	SER A	91	133.844	-3.489	6.104	1.00	0.00
ATOM 1329	OG	SER A	91	133.229	-2.842	7.204	1.00	0.00
ATOM 1330	H	SER A	91	135.708	-4.173	4.359	1.00	0.00
ATOM 1331	HA	SER A	91	135.706	-3.080	7.076	1.00	0.00
ATOM 1332	1HB	SER A	91	133.799	-2.835	5.247	1.00	0.00
ATOM 1333	2HB	SER A	91	133.305	-4.400	5.891	1.00	0.00
ATOM 1334	HG	SER A	91	132.507	-3.385	7.531	1.00	0.00
ATOM 1335	N	ARG A	92	136.490	-5.898	6.857	1.00	0.00
ATOM 1336	CA	ARG A	92	136.689	-7.217	7.447	1.00	0.00
ATOM 1337	C	ARG A	92	136.792	-7.125	8.966	1.00	0.00
ATOM 1338	O	ARG A	92	136.442	-8.066	9.679	1.00	0.00
ATOM 1339	CB	ARG A	92	137.950	-7.867	6.877	1.00	0.00
ATOM 1340	CG	ARG A	92	137.698	-8.693	5.627	1.00	0.00
ATOM 1341	CD	ARG A	92	138.690	-9.839	5.507	1.00	0.00
ATOM 1342	NE	ARG A	92	138.461	-10.869	6.518	1.00	0.00
ATOM 1343	CZ	ARG A	92	139.262	-11.916	6.704	1.00	0.00
ATOM 1344	NH1	ARG A	92	140.342	-12.076	5.949	1.00	0.00
ATOM 1345	NH2	ARG A	92	138.981	-12.806	7.646	1.00	0.00
ATOM 1346	H	ARG A	92	137.184	-5.525	6.276	1.00	0.00
ATOM 1347	HA	ARG A	92	135.835	-7.826	7.192	1.00	0.00
ATOM 1348	1HB	ARG A	92	138.663	-7.092	6.633	1.00	0.00
ATOM 1349	2HB	ARG A	92	138.380	-8.514	7.629	1.00	0.00
ATOM 1350	1HG	ARG A	92	136.699	-9.099	5.671	1.00	0.00
ATOM 1351	2HG	ARG A	92	137.792	-8.055	4.760	1.00	0.00
ATOM 1352	1HD	ARG A	92	138.591	-10.282	4.527	1.00	0.00
ATOM 1353	2HD	ARG A	92	139.690	-9.447	5.625	1.00	0.00
ATOM 1354	HE	ARG A	92	137.670	-10.775	7.088	1.00	0.00

ATOM 1355	1HH1	ARG	A	92	140.560	-11.409	5.237	1.00	0.00
ATOM 1356	2HH1	ARG	A	92	140.940	-12.865	6.094	1.00	0.00
ATOM 1357	1HH2	ARG	A	92	138.168	-12.689	8.216	1.00	0.00
ATOM 1358	2HH2	ARG	A	92	139.582	-13.593	7.785	1.00	0.00
ATOM 1359	N	PHE	A	93	137.276	-5.988	9.456	1.00	0.00
ATOM 1360	CA	PHE	A	93	137.426	-5.779	10.891	1.00	0.00
ATOM 1361	C	PHE	A	93	136.416	-4.758	11.407	1.00	0.00
ATOM 1362	O	PHE	A	93	136.659	-4.082	12.407	1.00	0.00
ATOM 1363	CB	PHE	A	93	138.848	-5.313	11.213	1.00	0.00
ATOM 1364	CG	PHE	A	93	139.903	-6.319	10.855	1.00	0.00
ATOM 1365	CD1	PHE	A	93	140.687	-6.900	11.839	1.00	0.00
ATOM 1366	CD2	PHE	A	93	140.111	-6.686	9.535	1.00	0.00
ATOM 1367	CE1	PHE	A	93	141.659	-7.827	11.512	1.00	0.00
ATOM 1368	CE2	PHE	A	93	141.081	-7.612	9.203	1.00	0.00
ATOM 1369	CZ	PHE	A	93	141.857	-8.183	10.192	1.00	0.00
ATOM 1370	H	PHE	A	93	137.539	-5.275	8.839	1.00	0.00
ATOM 1371	HA	PHE	A	93	137.248	-6.723	11.384	1.00	0.00
ATOM 1372	1HB	PHE	A	93	139.054	-4.406	10.665	1.00	0.00
ATOM 1373	2HB	PHE	A	93	138.922	-5.113	12.271	1.00	0.00
ATOM 1374	HD1	PHE	A	93	140.533	-6.623	12.871	1.00	0.00
ATOM 1375	HD2	PHE	A	93	139.506	-6.239	8.760	1.00	0.00
ATOM 1376	HE1	PHE	A	93	142.264	-8.272	12.289	1.00	0.00
ATOM 1377	HE2	PHE	A	93	141.234	-7.888	8.170	1.00	0.00
ATOM 1378	HZ	PHE	A	93	142.615	-8.907	9.935	1.00	0.00
ATOM 1379	N	ALA	A	94	135.281	-4.649	10.721	1.00	0.00
ATOM 1380	CA	ALA	A	94	134.240	-3.710	11.117	1.00	0.00
ATOM 1381	C	ALA	A	94	133.215	-4.378	12.028	1.00	0.00
ATOM 1382	O	ALA	A	94	132.649	-5.416	11.684	1.00	0.00
ATOM 1383	CB	ALA	A	94	133.557	-3.130	9.890	1.00	0.00

ATOM 1384	H	ALA A	94	135.142	-5.214	9.932	1.00	0.00
ATOM 1385	HA	ALA A	94	134.709	-2.900	11.656	1.00	0.00
ATOM 1386	1HB	ALA A	94	132.958	-2.278	10.178	1.00	0.00
ATOM 1387	2HB	ALA A	94	132.922	-3.880	9.442	1.00	0.00
ATOM 1388	3HB	ALA A	94	134.305	-2.818	9.175	1.00	0.00
ATOM 1389	N	SER A	95	132.983	-3.778	13.190	1.00	0.00
ATOM 1390	CA	SER A	95	132.026	-4.315	14.151	1.00	0.00
ATOM 1391	C	SER A	95	130.594	-4.075	13.684	1.00	0.00
ATOM 1392	O	SER A	95	130.199	-2.939	13.422	1.00	0.00
ATOM 1393	CB	SER A	95	132.240	-3.679	15.525	1.00	0.00
ATOM 1394	OG	SER A	95	132.391	-2.274	15.421	1.00	0.00
ATOM 1395	H	SER A	95	133.467	-2.953	13.408	1.00	0.00
ATOM 1396	HA	SER A	95	132.194	-5.379	14.226	1.00	0.00
ATOM 1397	1HB	SER A	95	131.389	-3.892	16.154	1.00	0.00
ATOM 1398	2HB	SER A	95	133.132	-4.092	15.976	1.00	0.00
ATOM 1399	HG	SER A	95	133.214	-2.008	15.838	1.00	0.00
ATOM 1400	N	LEU A	96	129.822	-5.152	13.584	1.00	0.00
ATOM 1401	CA	LEU A	96	128.433	-5.058	13.149	1.00	0.00
ATOM 1402	C	LEU A	96	127.642	-6.286	13.591	1.00	0.00
ATOM 1403	O	LEU A	96	127.548	-7.272	12.860	1.00	0.00
ATOM 1404	CB	LEU A	96	128.364	-4.909	11.627	1.00	0.00
ATOM 1405	CG	LEU A	96	128.144	-3.480	11.127	1.00	0.00
ATOM 1406	CD1	LEU A	96	128.600	-3.344	9.683	1.00	0.00
ATOM 1407	CD2	LEU A	96	126.680	-3.088	11.266	1.00	0.00
ATOM 1408	H	LEU A	96	130.195	-6.030	13.808	1.00	0.00
ATOM 1409	HA	LEU A	96	128.000	-4.182	13.608	1.00	0.00
ATOM 1410	1HB	LEU A	96	129.290	-5.276	11.208	1.00	0.00
ATOM 1411	2HB	LEU A	96	127.554	-5.522	11.261	1.00	0.00
ATOM 1412	HG	LEU A	96	128.732	-2.801	11.728	1.00	0.00

ATOM 1413	1HD1	LEU A	96	127.967	-2.634	9.171	1.00	0.00
ATOM 1414	2HD1	LEU A	96	128.535	-4.304	9.193	1.00	0.00
ATOM 1415	3HD1	LEU A	96	129.623	-2.997	9.659	1.00	0.00
ATOM 1416	1HD2	LEU A	96	126.133	-3.428	10.398	1.00	0.00
ATOM 1417	2HD2	LEU A	96	126.601	-2.014	11.342	1.00	0.00
ATOM 1418	3HD2	LEU A	96	126.268	-3.543	12.153	1.00	0.00
ATOM 1419	N	GLN A	97	127.077	-6.219	14.792	1.00	0.00
ATOM 1420	CA	GLN A	97	126.295	-7.326	15.332	1.00	0.00
ATOM 1421	C	GLN A	97	127.147	-8.589	15.445	1.00	0.00
ATOM 1422	O	GLN A	97	127.340	-9.305	14.462	1.00	0.00
ATOM 1423	CB	GLN A	97	125.079	-7.596	14.446	1.00	0.00
ATOM 1424	CG	GLN A	97	123.875	-6.732	14.784	1.00	0.00
ATOM 1425	CD	GLN A	97	123.033	-7.317	15.901	1.00	0.00
ATOM 1426	OE1	GLN A	97	122.773	-8.519	15.934	1.00	0.00
ATOM 1427	NE2	GLN A	97	122.601	-6.466	16.825	1.00	0.00
ATOM 1428	H	GLN A	97	127.189	-5.406	15.328	1.00	0.00
ATOM 1429	HA	GLN A	97	125.956	-7.041	16.316	1.00	0.00
ATOM 1430	1HB	GLN A	97	125.349	-7.413	13.417	1.00	0.00
ATOM 1431	2HB	GLN A	97	124.793	-8.632	14.556	1.00	0.00
ATOM 1432	1HG	GLN A	97	124.222	-5.756	15.090	1.00	0.00
ATOM 1433	2HG	GLN A	97	123.259	-6.634	13.902	1.00	0.00
ATOM 1434	1HE2	GLN A	97	122.847	-5.522	16.736	1.00	0.00
ATOM 1435	2HE2	GLN A	97	122.055	-6.817	17.559	1.00	0.00
ATOM 1436	N	PRO A	98	127.670	-8.881	16.649	1.00	0.00
ATOM 1437	CA	PRO A	98	128.502	-10.065	16.879	1.00	0.00
ATOM 1438	C	PRO A	98	127.689	-11.355	16.877	1.00	0.00
ATOM 1439	O	PRO A	98	126.521	-11.363	16.487	1.00	0.00
ATOM 1440	CB	PRO A	98	129.100	-9.812	18.264	1.00	0.00
ATOM 1441	CG	PRO A	98	128.106	-8.940	18.950	1.00	0.00

ATOM 1442	CD	PRO A	98	127.492	-8.082	17.877	1.00	0.00
ATOM 1443	HA	PRO A	98	129.295	-10.139	16.150	1.00	0.00
ATOM 1444	1HB	PRO A	98	129.226	-10.752	18.782	1.00	0.00
ATOM 1445	2HB	PRO A	98	130.054	-9.317	18.163	1.00	0.00
ATOM 1446	1HG	PRO A	98	127.348	-9.550	19.422	1.00	0.00
ATOM 1447	2HG	PRO A	98	128.602	-8.324	19.684	1.00	0.00
ATOM 1448	1HD	PRO A	98	126.444	-7.917	18.080	1.00	0.00
ATOM 1449	2HD	PRO A	98	128.015	-7.141	17.802	1.00	0.00
ATOM 1450	N	SER A	99	128.314	-12.443	17.314	1.00	0.00
ATOM 1451	CA	SER A	99	127.648	-13.740	17.362	1.00	0.00
ATOM 1452	C	SER A	99	127.209	-14.177	15.967	1.00	0.00
ATOM 1453	O	SER A	99	127.178	-13.374	15.036	1.00	0.00
ATOM 1454	CB	SER A	99	126.436	-13.680	18.295	1.00	0.00
ATOM 1455	OG	SER A	99	126.578	-12.641	19.248	1.00	0.00
ATOM 1456	H	SER A	99	129.245	-12.373	17.611	1.00	0.00
ATOM 1457	HA	SER A	99	128.353	-14.460	17.748	1.00	0.00
ATOM 1458	1HB	SER A	99	125.545	-13.498	17.713	1.00	0.00
ATOM 1459	2HB	SER A	99	126.340	-14.621	18.816	1.00	0.00
ATOM 1460	HG	SER A	99	125.842	-12.669	19.864	1.00	0.00
ATOM 1461	N	GLY A	100	126.873	-15.456	15.833	1.00	0.00
ATOM 1462	CA	GLY A	100	126.441	-15.979	14.550	1.00	0.00
ATOM 1463	C	GLY A	100	124.977	-16.377	14.548	1.00	0.00
ATOM 1464	O	GLY A	100	124.227	-15.995	15.447	1.00	0.00
ATOM 1465	H	GLY A	100	126.918	-16.050	16.612	1.00	0.00
ATOM 1466	1HA	GLY A	100	126.599	-15.224	13.794	1.00	0.00
ATOM 1467	2HA	GLY A	100	127.038	-16.845	14.308	1.00	0.00
ATOM 1468	N	PRO A	101	124.535	-17.151	13.541	1.00	0.00
ATOM 1469	CA	PRO A	101	123.141	-17.595	13.438	1.00	0.00
ATOM 1470	C	PRO A	101	122.650	-18.261	14.719	1.00	0.00

ATOM 1471	O	PRO A 101	123.355	-19.073	15.319	1.00	0.00
ATOM 1472	CB	PRO A 101	123.172	-18.604	12.290	1.00	0.00
ATOM 1473	CG	PRO A 101	124.345	-18.203	11.464	1.00	0.00
ATOM 1474	CD	PRO A 101	125.360	-17.653	12.427	1.00	0.00
ATOM 1475	HA	PRO A 101	122.483	-16.776	13.186	1.00	0.00
ATOM 1476	1HB	PRO A 101	123.289	-19.602	12.686	1.00	0.00
ATOM 1477	2HB	PRO A 101	122.253	-18.540	11.726	1.00	0.00
ATOM 1478	1HG	PRO A 101	124.744	-19.065	10.950	1.00	0.00
ATOM 1479	2HG	PRO A 101	124.053	-17.444	10.753	1.00	0.00
ATOM 1480	1HD	PRO A 101	126.026	-18.434	12.760	1.00	0.00
ATOM 1481	2HD	PRO A 101	125.917	-16.849	11.968	1.00	0.00
ATOM 1482	N	SER A 102	121.436	-17.912	15.135	1.00	0.00
ATOM 1483	CA	SER A 102	120.850	-18.477	16.345	1.00	0.00
ATOM 1484	C	SER A 102	119.355	-18.713	16.166	1.00	0.00
ATOM 1485	O	SER A 102	118.583	-18.618	17.120	1.00	0.00
ATOM 1486	CB	SER A 102	121.094	-17.548	17.536	1.00	0.00
ATOM 1487	OG	SER A 102	122.478	-17.319	17.730	1.00	0.00
ATOM 1488	H	SER A 102	120.923	-17.260	14.615	1.00	0.00
ATOM 1489	HA	SER A 102	121.332	-19.424	16.534	1.00	0.00
ATOM 1490	1HB	SER A 102	120.607	-16.602	17.356	1.00	0.00
ATOM 1491	2HB	SER A 102	120.687	-17.999	18.429	1.00	0.00
ATOM 1492	HG	SER A 102	122.819	-16.784	17.010	1.00	0.00
ATOM 1493	N	SER A 103	118.952	-19.020	14.937	1.00	0.00
ATOM 1494	CA	SER A 103	117.547	-19.269	14.633	1.00	0.00
ATOM 1495	C	SER A 103	117.370	-19.680	13.175	1.00	0.00
ATOM 1496	O	SER A 103	117.412	-18.842	12.274	1.00	0.00
ATOM 1497	CB	SER A 103	116.711	-18.024	14.929	1.00	0.00
ATOM 1498	OG	SER A 103	116.240	-18.031	16.266	1.00	0.00
ATOM 1499	H	SER A 103	119.615	-19.081	14.218	1.00	0.00

ATOM 1500 HA SER A 103 117.210 -20.077 15.265 1.00 0.00
ATOM 1501 1HB SER A 103 117.315 -17.142 14.780 1.00 0.00
ATOM 1502 2HB SER A 103 115.862 -17.995 14.261 1.00 0.00
ATOM 1503 HG SER A 103 116.540 -17.238 16.715 1.00 0.00
ATOM 1504 N GLY A 104 117.174 -20.975 12.949 1.00 0.00
ATOM 1505 CA GLY A 104 116.995 -21.474 11.599 1.00 0.00
ATOM 1506 C GLY A 104 116.072 -22.675 11.542 1.00 0.00
ATOM 1507 O GLY A 104 116.483 -23.712 10.980 1.00 0.00
ATOM 1508 OXT GLY A 104 114.940 -22.579 12.059 1.00 0.00
ATOM 1509 H GLY A 104 117.151 -21.597 13.706 1.00 0.00
ATOM 1510 1HA GLY A 104 116.579 -20.685 10.988 1.00 0.00
ATOM 1511 2HA GLY A 104 117.957 -21.753 11.198 1.00 0.00
TER 1512 GLY A 104
ENDMDL

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ATOM 1 N GLY A 1 126.529 -1.144 18.709 1.00 0.00
ATOM 2 CA GLY A 1 126.599 -1.450 20.165 1.00 0.00
ATOM 3 C GLY A 1 125.953 -0.373 21.015 1.00 0.00
ATOM 4 O GLY A 1 126.369 -0.136 22.148 1.00 0.00
ATOM 5 1H GLY A 1 125.581 -1.364 18.343 1.00 0.00
ATOM 6 2H GLY A 1 127.228 -1.712 18.191 1.00 0.00
ATOM 7 3H GLY A 1 126.727 -0.136 18.545 1.00 0.00
ATOM 8 1HA GLY A 1 126.097 -2.388 20.349 1.00 0.00
ATOM 9 2HA GLY A 1 127.635 -1.546 20.452 1.00 0.00
ATOM 10 N SER A 2 124.932 0.278 20.466 1.00 0.00
ATOM 11 CA SER A 2 124.226 1.335 21.181 1.00 0.00
ATOM 12 C SER A 2 125.161 2.498 21.496 1.00 0.00

ATOM 13	O	SER A	2	126.142	2.339	22.223	1.00	0.00
ATOM 14	CB	SER A	2	123.618	0.789	22.474	1.00	0.00
ATOM 15	OG	SER A	2	122.293	0.332	22.262	1.00	0.00
ATOM 16	H	SER A	2	124.647	0.042	19.559	1.00	0.00
ATOM 17	HA	SER A	2	123.431	1.692	20.542	1.00	0.00
ATOM 18	1HB	SER A	2	124.216	-0.036	22.830	1.00	0.00
ATOM 19	2HB	SER A	2	123.601	1.571	23.219	1.00	0.00
ATOM 20	HG	SER A	2	121.788	1.012	21.810	1.00	0.00
ATOM 21	N	SER A	3	124.851	3.667	20.945	1.00	0.00
ATOM 22	CA	SER A	3	125.664	4.858	21.168	1.00	0.00
ATOM 23	C	SER A	3	127.085	4.650	20.653	1.00	0.00
ATOM 24	O	SER A	3	127.935	4.096	21.352	1.00	0.00
ATOM 25	CB	SER A	3	125.695	5.208	22.657	1.00	0.00
ATOM 26	OG	SER A	3	125.726	6.612	22.849	1.00	0.00
ATOM 27	H	SER A	3	124.057	3.731	20.375	1.00	0.00
ATOM 28	HA	SER A	3	125.213	5.673	20.624	1.00	0.00
ATOM 29	1HB	SER A	3	124.812	4.812	23.136	1.00	0.00
ATOM 30	2HB	SER A	3	126.575	4.776	23.108	1.00	0.00
ATOM 31	HG	SER A	3	126.154	6.812	23.685	1.00	0.00
ATOM 32	N	GLY A	4	127.336	5.096	19.427	1.00	0.00
ATOM 33	CA	GLY A	4	128.655	4.950	18.841	1.00	0.00
ATOM 34	C	GLY A	4	128.942	6.004	17.790	1.00	0.00
ATOM 35	O	GLY A	4	128.099	6.854	17.506	1.00	0.00
ATOM 36	H	GLY A	4	126.620	5.528	18.917	1.00	0.00
ATOM 37	1HA	GLY A	4	129.396	5.026	19.622	1.00	0.00
ATOM 38	2HA	GLY A	4	128.728	3.974	18.384	1.00	0.00
ATOM 39	N	SER A	5	130.137	5.949	17.210	1.00	0.00
ATOM 40	CA	SER A	5	130.535	6.906	16.184	1.00	0.00
ATOM 41	C	SER A	5	129.867	6.585	14.851	1.00	0.00

ATOM 42	O	SER A	5	129.360	7.476	14.170	1.00	0.00
ATOM 43	CB	SER A	5	132.056	6.906	16.019	1.00	0.00
ATOM 44	OG	SER A	5	132.669	7.794	16.936	1.00	0.00
ATOM 45	H	SER A	5	130.767	5.247	17.479	1.00	0.00
ATOM 46	HA	SER A	5	130.217	7.887	16.506	1.00	0.00
ATOM 47	1HB	SER A	5	132.435	5.910	16.193	1.00	0.00
ATOM 48	2HB	SER A	5	132.305	7.216	15.015	1.00	0.00
ATOM 49	HG	SER A	5	133.495	8.116	16.568	1.00	0.00
ATOM 50	N	SER A	6	129.869	5.307	14.487	1.00	0.00
ATOM 51	CA	SER A	6	129.263	4.869	13.235	1.00	0.00
ATOM 52	C	SER A	6	129.935	5.539	12.041	1.00	0.00
ATOM 53	O	SER A	6	130.714	6.479	12.201	1.00	0.00
ATOM 54	CB	SER A	6	127.764	5.181	13.233	1.00	0.00
ATOM 55	OG	SER A	6	127.128	4.621	12.097	1.00	0.00
ATOM 56	H	SER A	6	130.288	4.644	15.073	1.00	0.00
ATOM 57	HA	SER A	6	129.399	3.801	13.157	1.00	0.00
ATOM 58	1HB	SER A	6	127.312	4.770	14.122	1.00	0.00
ATOM 59	2HB	SER A	6	127.622	6.252	13.219	1.00	0.00
ATOM 60	HG	SER A	6	127.148	3.663	12.158	1.00	0.00
ATOM 61	N	GLY A	7	129.628	5.049	10.844	1.00	0.00
ATOM 62	CA	GLY A	7	130.212	5.613	9.641	1.00	0.00
ATOM 63	C	GLY A	7	129.263	6.548	8.919	1.00	0.00
ATOM 64	O	GLY A	7	128.048	6.481	9.110	1.00	0.00
ATOM 65	H	GLY A	7	129.001	4.299	10.778	1.00	0.00
ATOM 66	1HA	GLY A	7	131.104	6.159	9.909	1.00	0.00
ATOM 67	2HA	GLY A	7	130.482	4.808	8.974	1.00	0.00
ATOM 68	N	LEU A	8	129.818	7.424	8.087	1.00	0.00
ATOM 69	CA	LEU A	8	129.013	8.378	7.333	1.00	0.00
ATOM 70	C	LEU A	8	128.849	7.929	5.885	1.00	0.00

ATOM 71	O	LEU A	8	127.830	8.202	5.252	1.00	0.00
ATOM 72	CB	LEU A	8	129.654	9.766	7.379	1.00	0.00
ATOM 73	CG	LEU A	8	129.368	10.571	8.648	1.00	0.00
ATOM 74	CD1	LEU A	8	130.443	11.625	8.866	1.00	0.00
ATOM 75	CD2	LEU A	8	127.993	11.217	8.568	1.00	0.00
ATOM 76	H	LEU A	8	130.792	7.429	7.977	1.00	0.00
ATOM 77	HA	LEU A	8	128.038	8.427	7.795	1.00	0.00
ATOM 78	1HB	LEU A	8	130.725	9.648	7.286	1.00	0.00
ATOM 79	2HB	LEU A	8	129.297	10.334	6.532	1.00	0.00
ATOM 80	HG	LEU A	8	129.376	9.904	9.498	1.00	0.00
ATOM 81	1HD1	LEU A	8	130.599	11.766	9.926	1.00	0.00
ATOM 82	2HD1	LEU A	8	130.128	12.558	8.422	1.00	0.00
ATOM 83	3HD1	LEU A	8	131.363	11.300	8.406	1.00	0.00
ATOM 84	1HD2	LEU A	8	127.246	10.518	8.916	1.00	0.00
ATOM 85	2HD2	LEU A	8	127.782	11.489	7.545	1.00	0.00
ATOM 86	3HD2	LEU A	8	127.974	12.102	9.188	1.00	0.00
ATOM 87	N	ALA A	9	129.860	7.236	5.368	1.00	0.00
ATOM 88	CA	ALA A	9	129.829	6.747	3.994	1.00	0.00
ATOM 89	C	ALA A	9	129.756	7.901	3.001	1.00	0.00
ATOM 90	O	ALA A	9	128.813	8.693	3.021	1.00	0.00
ATOM 91	CB	ALA A	9	128.652	5.803	3.796	1.00	0.00
ATOM 92	H	ALA A	9	130.644	7.050	5.924	1.00	0.00
ATOM 93	HA	ALA A	9	130.739	6.192	3.819	1.00	0.00
ATOM 94	1HB	ALA A	9	128.337	5.416	4.753	1.00	0.00
ATOM 95	2HB	ALA A	9	128.951	4.985	3.158	1.00	0.00
ATOM 96	3HB	ALA A	9	127.834	6.339	3.337	1.00	0.00
ATOM 97	N	MET A	10	130.756	7.990	2.131	1.00	0.00
ATOM 98	CA	MET A	10	130.807	9.048	1.127	1.00	0.00
ATOM 99	C	MET A	10	130.920	8.458	-0.277	1.00	0.00

ATOM 100	O	MET A	10	132.008	8.408	-0.852	1.00	0.00
ATOM 101	CB	MET A	10	131.989	9.981	1.398	1.00	0.00
ATOM 102	CG	MET A	10	132.125	10.382	2.858	1.00	0.00
ATOM 103	SD	MET A	10	132.698	12.078	3.062	1.00	0.00
ATOM 104	CE	MET A	10	132.906	12.155	4.839	1.00	0.00
ATOM 105	H	MET A	10	131.479	7.328	2.163	1.00	0.00
ATOM 106	HA	MET A	10	129.890	9.613	1.194	1.00	0.00
ATOM 107	1HB	MET A	10	132.900	9.486	1.096	1.00	0.00
ATOM 108	2HB	MET A	10	131.864	10.880	0.811	1.00	0.00
ATOM 109	1HG	MET A	10	131.161	10.283	3.336	1.00	0.00
ATOM 110	2HG	MET A	10	132.831	9.718	3.335	1.00	0.00
ATOM 111	1HE	MET A	10	133.016	13.184	5.146	1.00	0.00
ATOM 112	2HE	MET A	10	133.787	11.598	5.123	1.00	0.00
ATOM 113	3HE	MET A	10	132.039	11.726	5.321	1.00	0.00
ATOM 114	N	PRO A	11	129.792	8.005	-0.850	1.00	0.00
ATOM 115	CA	PRO A	11	129.771	7.417	-2.193	1.00	0.00
ATOM 116	C	PRO A	11	130.295	8.381	-3.257	1.00	0.00
ATOM 117	O	PRO A	11	131.120	8.003	-4.089	1.00	0.00
ATOM 118	CB	PRO A	11	128.292	7.101	-2.440	1.00	0.00
ATOM 119	CG	PRO A	11	127.661	7.081	-1.088	1.00	0.00
ATOM 120	CD	PRO A	11	128.455	8.028	-0.234	1.00	0.00
ATOM 121	HA	PRO A	11	130.346	6.504	-2.230	1.00	0.00
ATOM 122	1HB	PRO A	11	127.858	7.865	-3.068	1.00	0.00
ATOM 123	2HB	PRO A	11	128.207	6.140	-2.926	1.00	0.00
ATOM 124	1HG	PRO A	11	126.639	7.416	-1.161	1.00	0.00
ATOM 125	2HG	PRO A	11	127.701	6.083	-0.680	1.00	0.00
ATOM 126	1HD	PRO A	11	128.030	9.019	-0.272	1.00	0.00
ATOM 127	2HD	PRO A	11	128.495	7.671	0.785	1.00	0.00
ATOM 128	N	PRO A	12	129.828	9.644	-3.248	1.00	0.00

ATOM 129	CA	PRO A	12	130.269	10.649	-4.221	1.00	0.00
ATOM 130	C	PRO A	12	131.785	10.805	-4.236	1.00	0.00
ATOM 131	O	PRO A	12	132.363	11.262	-5.222	1.00	0.00
ATOM 132	CB	PRO A	12	129.605	11.940	-3.737	1.00	0.00
ATOM 133	CG	PRO A	12	128.436	11.491	-2.931	1.00	0.00
ATOM 134	CD	PRO A	12	128.847	10.194	-2.294	1.00	0.00
ATOM 135	HA	PRO A	12	129.923	10.413	-5.217	1.00	0.00
ATOM 136	1HB	PRO A	12	130.305	12.505	-3.138	1.00	0.00
ATOM 137	2HB	PRO A	12	129.294	12.530	-4.586	1.00	0.00
ATOM 138	1HG	PRO A	12	128.207	12.226	-2.173	1.00	0.00
ATOM 139	2HG	PRO A	12	127.582	11.337	-3.576	1.00	0.00
ATOM 140	1HD	PRO A	12	129.305	10.376	-1.332	1.00	0.00
ATOM 141	2HD	PRO A	12	127.996	9.540	-2.191	1.00	0.00
ATOM 142	N	GLY A	13	132.425	10.421	-3.135	1.00	0.00
ATOM 143	CA	GLY A	13	133.869	10.526	-3.041	1.00	0.00
ATOM 144	C	GLY A	13	134.548	9.171	-3.011	1.00	0.00
ATOM 145	O	GLY A	13	134.346	8.390	-2.081	1.00	0.00
ATOM 146	H	GLY A	13	131.911	10.064	-2.379	1.00	0.00
ATOM 147	1HA	GLY A	13	134.235	11.081	-3.893	1.00	0.00
ATOM 148	2HA	GLY A	13	134.121	11.064	-2.140	1.00	0.00
ATOM 149	N	ASN A	14	135.355	8.893	-4.030	1.00	0.00
ATOM 150	CA	ASN A	14	136.070	7.624	-4.121	1.00	0.00
ATOM 151	C	ASN A	14	135.095	6.455	-4.250	1.00	0.00
ATOM 152	O	ASN A	14	134.876	5.936	-5.343	1.00	0.00
ATOM 153	CB	ASN A	14	136.968	7.426	-2.897	1.00	0.00
ATOM 154	CG	ASN A	14	138.359	7.995	-3.103	1.00	0.00
ATOM 155	OD1	ASN A	14	139.010	7.725	-4.111	1.00	0.00
ATOM 156	ND2	ASN A	14	138.821	8.788	-2.142	1.00	0.00
ATOM 157	H	ASN A	14	135.474	9.559	-4.739	1.00	0.00

ATOM 158	HA	ASN A	14	136.689	7.657	-5.007	1.00	0.00
ATOM 159	1HB	ASN A	14	136.521	7.919	-2.047	1.00	0.00
ATOM 160	2HB	ASN A	14	137.057	6.370	-2.691	1.00	0.00
ATOM 161	1HD2	ASN A	14	138.247	8.959	-1.367	1.00	0.00
ATOM 162	2HD2	ASN A	14	139.718	9.169	-2.249	1.00	0.00
ATOM 163	N	SER A	15	134.515	6.046	-3.127	1.00	0.00
ATOM 164	CA	SER A	15	133.565	4.939	-3.117	1.00	0.00
ATOM 165	C	SER A	15	132.890	4.813	-1.754	1.00	0.00
ATOM 166	O	SER A	15	131.665	4.742	-1.661	1.00	0.00
ATOM 167	CB	SER A	15	134.272	3.631	-3.474	1.00	0.00
ATOM 168	OG	SER A	15	134.250	3.404	-4.872	1.00	0.00
ATOM 169	H	SER A	15	134.729	6.499	-2.284	1.00	0.00
ATOM 170	HA	SER A	15	132.810	5.145	-3.860	1.00	0.00
ATOM 171	1HB	SER A	15	135.300	3.679	-3.146	1.00	0.00
ATOM 172	2HB	SER A	15	133.775	2.810	-2.979	1.00	0.00
ATOM 173	HG	SER A	15	133.395	3.050	-5.126	1.00	0.00
ATOM 174	N	HIS A	16	133.700	4.782	-0.700	1.00	0.00
ATOM 175	CA	HIS A	16	133.181	4.663	0.658	1.00	0.00
ATOM 176	C	HIS A	16	133.957	5.561	1.616	1.00	0.00
ATOM 177	O	HIS A	16	133.368	6.325	2.381	1.00	0.00
ATOM 178	CB	HIS A	16	133.256	3.209	1.128	1.00	0.00
ATOM 179	CG	HIS A	16	132.082	2.382	0.704	1.00	0.00
ATOM 180	ND1	HIS A	16	130.777	2.815	0.814	1.00	0.00
ATOM 181	CD2	HIS A	16	132.021	1.141	0.165	1.00	0.00
ATOM 182	CE1	HIS A	16	129.965	1.876	0.363	1.00	0.00
ATOM 183	NE2	HIS A	16	130.694	0.851	-0.037	1.00	0.00
ATOM 184	H	HIS A	16	134.668	4.842	-0.839	1.00	0.00
ATOM 185	HA	HIS A	16	132.148	4.976	0.646	1.00	0.00
ATOM 186	1HB	HIS A	16	134.147	2.752	0.723	1.00	0.00

ATOM 187	2HB	HIS A	16	133.305	3.190	2.207	1.00	0.00
ATOM 188	HD1	HIS A	16	130.490	3.681	1.170	1.00	0.00
ATOM 189	HD2	HIS A	16	132.860	0.498	-0.063	1.00	0.00
ATOM 190	HE1	HIS A	16	128.886	1.937	0.326	1.00	0.00
ATOM 191	HE2	HIS A	16	130.349	0.055	-0.493	1.00	0.00
ATOM 192	N	GLY A	17	135.281	5.462	1.570	1.00	0.00
ATOM 193	CA	GLY A	17	136.116	6.270	2.439	1.00	0.00
ATOM 194	C	GLY A	17	137.527	5.730	2.556	1.00	0.00
ATOM 195	O	GLY A	17	137.929	5.249	3.616	1.00	0.00
ATOM 196	H	GLY A	17	135.695	4.835	0.940	1.00	0.00
ATOM 197	1HA	GLY A	17	136.159	7.275	2.045	1.00	0.00
ATOM 198	2HA	GLY A	17	135.670	6.300	3.423	1.00	0.00
ATOM 199	N	LEU A	18	138.281	5.808	1.465	1.00	0.00
ATOM 200	CA	LEU A	18	139.656	5.322	1.450	1.00	0.00
ATOM 201	C	LEU A	18	140.620	6.402	1.933	1.00	0.00
ATOM 202	O	LEU A	18	141.030	7.271	1.163	1.00	0.00
ATOM 203	CB	LEU A	18	140.044	4.868	0.041	1.00	0.00
ATOM 204	CG	LEU A	18	139.195	3.731	-0.529	1.00	0.00
ATOM 205	CD1	LEU A	18	139.488	3.537	-2.008	1.00	0.00
ATOM 206	CD2	LEU A	18	139.449	2.442	0.239	1.00	0.00
ATOM 207	H	LEU A	18	137.904	6.201	0.650	1.00	0.00
ATOM 208	HA	LEU A	18	139.716	4.477	2.119	1.00	0.00
ATOM 209	1HB	LEU A	18	139.963	5.717	-0.622	1.00	0.00
ATOM 210	2HB	LEU A	18	141.073	4.545	0.060	1.00	0.00
ATOM 211	HG	LEU A	18	138.150	3.983	-0.427	1.00	0.00
ATOM 212	1HD1	LEU A	18	139.057	4.351	-2.571	1.00	0.00
ATOM 213	2HD1	LEU A	18	139.059	2.603	-2.341	1.00	0.00
ATOM 214	3HD1	LEU A	18	140.556	3.519	-2.165	1.00	0.00
ATOM 215	1HD2	LEU A	18	138.540	1.857	0.270	1.00	0.00

ATOM 216	2HD2	LEU A	18	139.758	2.678	1.246	1.00	0.00
ATOM 217	3HD2	LEU A	18	140.225	1.876	-0.253	1.00	0.00
ATOM 218	N	GLU A	19	140.977	6.339	3.211	1.00	0.00
ATOM 219	CA	GLU A	19	141.893	7.311	3.797	1.00	0.00
ATOM 220	C	GLU A	19	142.846	6.637	4.778	1.00	0.00
ATOM 221	O	GLU A	19	142.725	5.444	5.056	1.00	0.00
ATOM 222	CB	GLU A	19	141.110	8.417	4.507	1.00	0.00
ATOM 223	CG	GLU A	19	140.122	7.896	5.539	1.00	0.00
ATOM 224	CD	GLU A	19	140.471	8.328	6.951	1.00	0.00
ATOM 225	OE1	GLU A	19	140.621	7.444	7.820	1.00	0.00
ATOM 226	OE2	GLU A	19	140.593	9.548	7.186	1.00	0.00
ATOM 227	H	GLU A	19	140.616	5.622	3.774	1.00	0.00
ATOM 228	HA	GLU A	19	142.469	7.748	2.995	1.00	0.00
ATOM 229	1HB	GLU A	19	141.808	9.073	5.005	1.00	0.00
ATOM 230	2HB	GLU A	19	140.561	8.984	3.769	1.00	0.00
ATOM 231	1HG	GLU A	19	139.139	8.272	5.298	1.00	0.00
ATOM 232	2HG	GLU A	19	140.114	6.817	5.499	1.00	0.00
ATOM 233	N	VAL A	20	143.793	7.409	5.300	1.00	0.00
ATOM 234	CA	VAL A	20	144.767	6.887	6.251	1.00	0.00
ATOM 235	C	VAL A	20	144.077	6.297	7.478	1.00	0.00
ATOM 236	O	VAL A	20	143.175	6.909	8.049	1.00	0.00
ATOM 237	CB	VAL A	20	145.752	7.981	6.705	1.00	0.00
ATOM 238	CG1	VAL A	20	146.849	7.389	7.575	1.00	0.00
ATOM 239	CG2	VAL A	20	146.345	8.696	5.500	1.00	0.00
ATOM 240	H	VAL A	20	143.838	8.353	5.041	1.00	0.00
ATOM 241	HA	VAL A	20	145.330	6.108	5.758	1.00	0.00
ATOM 242	HB	VAL A	20	145.208	8.705	7.294	1.00	0.00
ATOM 243	1HG1	VAL A	20	147.749	7.978	7.472	1.00	0.00
ATOM 244	2HG1	VAL A	20	147.046	6.373	7.266	1.00	0.00

ATOM 245	3HG1	VAL	A	20	146.532	7.395	8.609	1.00	0.00
ATOM 246	1HG2	VAL	A	20	146.395	8.014	4.665	1.00	0.00
ATOM 247	2HG2	VAL	A	20	147.339	9.044	5.741	1.00	0.00
ATOM 248	3HG2	VAL	A	20	145.722	9.539	5.239	1.00	0.00
ATOM 249	N	GLY	A	21	144.509	5.104	7.877	1.00	0.00
ATOM 250	CA	GLY	A	21	143.922	4.453	9.033	1.00	0.00
ATOM 251	C	GLY	A	21	142.847	3.454	8.652	1.00	0.00
ATOM 252	O	GLY	A	21	142.616	2.479	9.367	1.00	0.00
ATOM 253	H	GLY	A	21	145.231	4.664	7.383	1.00	0.00
ATOM 254	1HA	GLY	A	21	144.700	3.939	9.577	1.00	0.00
ATOM 255	2HA	GLY	A	21	143.486	5.205	9.674	1.00	0.00
ATOM 256	N	SER	A	22	142.190	3.695	7.523	1.00	0.00
ATOM 257	CA	SER	A	22	141.135	2.808	7.047	1.00	0.00
ATOM 258	C	SER	A	22	141.722	1.621	6.290	1.00	0.00
ATOM 259	O	SER	A	22	142.824	1.701	5.748	1.00	0.00
ATOM 260	CB	SER	A	22	140.164	3.572	6.146	1.00	0.00
ATOM 261	OG	SER	A	22	139.411	4.514	6.891	1.00	0.00
ATOM 262	H	SER	A	22	142.420	4.488	6.996	1.00	0.00
ATOM 263	HA	SER	A	22	140.599	2.440	7.909	1.00	0.00
ATOM 264	1HB	SER	A	22	140.721	4.097	5.384	1.00	0.00
ATOM 265	2HB	SER	A	22	139.484	2.874	5.679	1.00	0.00
ATOM 266	HG	SER	A	22	139.102	4.107	7.703	1.00	0.00
ATOM 267	N	LEU	A	23	140.979	0.519	6.258	1.00	0.00
ATOM 268	CA	LEU	A	23	141.426	-0.685	5.568	1.00	0.00
ATOM 269	C	LEU	A	23	140.955	-0.688	4.116	1.00	0.00
ATOM 270	O	LEU	A	23	139.917	-0.113	3.790	1.00	0.00
ATOM 271	CB	LEU	A	23	140.909	-1.932	6.287	1.00	0.00
ATOM 272	CG	LEU	A	23	141.123	-1.943	7.801	1.00	0.00
ATOM 273	CD1	LEU	A	23	140.024	-2.738	8.489	1.00	0.00

ATOM 274	CD2	LEU A	23	142.490	-2.518	8.139	1.00	0.00
ATOM 275	H	LEU A	23	140.110	0.516	6.709	1.00	0.00
ATOM 276	HA	LEU A	23	142.506	-0.694	5.583	1.00	0.00
ATOM 277	1HB	LEU A	23	139.849	-2.019	6.092	1.00	0.00
ATOM 278	2HB	LEU A	23	141.406	-2.795	5.869	1.00	0.00
ATOM 279	HG	LEU A	23	141.084	-0.930	8.171	1.00	0.00
ATOM 280	1HD1	LEU A	23	139.188	-2.087	8.700	1.00	0.00
ATOM 281	2HD1	LEU A	23	140.403	-3.150	9.412	1.00	0.00
ATOM 282	3HD1	LEU A	23	139.702	-3.541	7.843	1.00	0.00
ATOM 283	1HD2	LEU A	23	143.155	-2.385	7.298	1.00	0.00
ATOM 284	2HD2	LEU A	23	142.394	-3.570	8.361	1.00	0.00
ATOM 285	3HD2	LEU A	23	142.893	-2.004	9.000	1.00	0.00
ATOM 286	N	ALA A	24	141.724	-1.339	3.251	1.00	0.00
ATOM 287	CA	ALA A	24	141.385	-1.418	1.835	1.00	0.00
ATOM 288	C	ALA A	24	142.041	-2.628	1.179	1.00	0.00
ATOM 289	O	ALA A	24	143.016	-3.174	1.693	1.00	0.00
ATOM 290	CB	ALA A	24	141.802	-0.139	1.123	1.00	0.00
ATOM 291	H	ALA A	24	142.540	-1.778	3.572	1.00	0.00
ATOM 292	HA	ALA A	24	140.313	-1.513	1.755	1.00	0.00
ATOM 293	1HB	ALA A	24	140.980	0.563	1.133	1.00	0.00
ATOM 294	2HB	ALA A	24	142.068	-0.367	0.101	1.00	0.00
ATOM 295	3HB	ALA A	24	142.652	0.294	1.628	1.00	0.00
ATOM 296	N	GLU A	25	141.498	-3.042	0.039	1.00	0.00
ATOM 297	CA	GLU A	25	142.029	-4.188	-0.691	1.00	0.00
ATOM 298	C	GLU A	25	142.552	-3.765	-2.060	1.00	0.00
ATOM 299	O	GLU A	25	142.262	-2.666	-2.533	1.00	0.00
ATOM 300	CB	GLU A	25	140.950	-5.261	-0.853	1.00	0.00
ATOM 301	CG	GLU A	25	141.492	-6.603	-1.318	1.00	0.00
ATOM 302	CD	GLU A	25	140.474	-7.720	-1.184	1.00	0.00

ATOM 303	OE1	GLU A	25	139.261	-7.428	-1.239	1.00	0.00
ATOM 304	OE2	GLU A	25	140.891	-8.886	-1.025	1.00	0.00
ATOM 305	H	GLU A	25	140.721	-2.564	-0.322	1.00	0.00
ATOM 306	HA	GLU A	25	142.847	-4.597	-0.116	1.00	0.00
ATOM 307	1HB	GLU A	25	140.457	-5.406	0.097	1.00	0.00
ATOM 308	2HB	GLU A	25	140.225	-4.919	-1.576	1.00	0.00
ATOM 309	1HG	GLU A	25	141.779	-6.522	-2.355	1.00	0.00
ATOM 310	2HG	GLU A	25	142.358	-6.852	-0.724	1.00	0.00
ATOM 311	N	VAL A	26	143.325	-4.643	-2.692	1.00	0.00
ATOM 312	CA	VAL A	26	143.887	-4.358	-4.006	1.00	0.00
ATOM 313	C	VAL A	26	143.611	-5.497	-4.981	1.00	0.00
ATOM 314	O	VAL A	26	143.746	-6.670	-4.634	1.00	0.00
ATOM 315	CB	VAL A	26	145.407	-4.122	-3.927	1.00	0.00
ATOM 316	CG1	VAL A	26	145.941	-3.628	-5.263	1.00	0.00
ATOM 317	CG2	VAL A	26	145.737	-3.136	-2.817	1.00	0.00
ATOM 318	H	VAL A	26	143.521	-5.503	-2.264	1.00	0.00
ATOM 319	HA	VAL A	26	143.423	-3.457	-4.380	1.00	0.00
ATOM 320	HB	VAL A	26	145.887	-5.062	-3.699	1.00	0.00
ATOM 321	1HG1	VAL A	26	145.299	-3.976	-6.058	1.00	0.00
ATOM 322	2HG1	VAL A	26	146.941	-4.011	-5.414	1.00	0.00
ATOM 323	3HG1	VAL A	26	145.966	-2.549	-5.265	1.00	0.00
ATOM 324	1HG2	VAL A	26	145.399	-2.150	-3.097	1.00	0.00
ATOM 325	2HG2	VAL A	26	146.805	-3.118	-2.657	1.00	0.00
ATOM 326	3HG2	VAL A	26	145.242	-3.441	-1.907	1.00	0.00
ATOM 327	N	LYS A	27	143.225	-5.144	-6.202	1.00	0.00
ATOM 328	CA	LYS A	27	142.931	-6.138	-7.228	1.00	0.00
ATOM 329	C	LYS A	27	144.213	-6.784	-7.743	1.00	0.00
ATOM 330	O	LYS A	27	144.796	-6.331	-8.729	1.00	0.00
ATOM 331	CB	LYS A	27	142.165	-5.494	-8.386	1.00	0.00

ATOM 332	CG	LYS A	27	140.656	-5.617	-8.258	1.00	0.00
ATOM 333	CD	LYS A	27	139.937	-4.761	-9.289	1.00	0.00
ATOM 334	CE	LYS A	27	138.651	-4.173	-8.729	1.00	0.00
ATOM 335	NZ	LYS A	27	137.511	-4.327	-9.674	1.00	0.00
ATOM 336	H	LYS A	27	143.137	-4.192	-6.420	1.00	0.00
ATOM 337	HA	LYS A	27	142.313	-6.901	-6.780	1.00	0.00
ATOM 338	1HB	LYS A	27	142.417	-4.445	-8.430	1.00	0.00
ATOM 339	2HB	LYS A	27	142.466	-5.968	-9.309	1.00	0.00
ATOM 340	1HG	LYS A	27	140.374	-6.649	-8.404	1.00	0.00
ATOM 341	2HG	LYS A	27	140.361	-5.297	-7.270	1.00	0.00
ATOM 342	1HD	LYS A	27	140.588	-3.954	-9.590	1.00	0.00
ATOM 343	2HD	LYS A	27	139.699	-5.372	-10.146	1.00	0.00
ATOM 344	1HE	LYS A	27	138.411	-4.677	-7.804	1.00	0.00
ATOM 345	2HE	LYS A	27	138.807	-3.121	-8.533	1.00	0.00
ATOM 346	1HZ	LYS A	27	137.204	-5.320	-9.704	1.00	0.00
ATOM 347	2HZ	LYS A	27	137.797	-4.036	-10.630	1.00	0.00
ATOM 348	3HZ	LYS A	27	136.711	-3.737	-9.369	1.00	0.00
ATOM 349	N	GLU A	28	144.647	-7.844	-7.069	1.00	0.00
ATOM 350	CA	GLU A	28	145.860	-8.555	-7.456	1.00	0.00
ATOM 351	C	GLU A	28	145.671	-10.063	-7.313	1.00	0.00
ATOM 352	O	GLU A	28	144.752	-10.520	-6.634	1.00	0.00
ATOM 353	CB	GLU A	28	147.042	-8.086	-6.602	1.00	0.00
ATOM 354	CG	GLU A	28	148.215	-7.571	-7.419	1.00	0.00
ATOM 355	CD	GLU A	28	149.010	-8.687	-8.068	1.00	0.00
ATOM 356	OE1	GLU A	28	149.929	-9.220	-7.412	1.00	0.00
ATOM 357	OE2	GLU A	28	148.712	-9.029	-9.231	1.00	0.00
ATOM 358	H	GLU A	28	144.138	-8.155	-6.291	1.00	0.00
ATOM 359	HA	GLU A	28	146.062	-8.326	-8.491	1.00	0.00
ATOM 360	1HB	GLU A	28	146.707	-7.291	-5.952	1.00	0.00

ATOM 361	2HB	GLU A	28	147.387	-8.911	-5.996	1.00	0.00
ATOM 362	1HG	GLU A	28	147.840	-6.920	-8.194	1.00	0.00
ATOM 363	2HG	GLU A	28	148.872	-7.011	-6.768	1.00	0.00
ATOM 364	N	ASN A	29	146.545	-10.831	-7.956	1.00	0.00
ATOM 365	CA	ASN A	29	146.468	-12.286	-7.898	1.00	0.00
ATOM 366	C	ASN A	29	146.578	-12.786	-6.458	1.00	0.00
ATOM 367	O	ASN A	29	145.726	-13.544	-5.994	1.00	0.00
ATOM 368	CB	ASN A	29	147.560	-12.922	-8.764	1.00	0.00
ATOM 369	CG	ASN A	29	147.714	-12.234	-10.106	1.00	0.00
ATOM 370	OD1	ASN A	29	146.896	-12.416	-11.008	1.00	0.00
ATOM 371	ND2	ASN A	29	148.768	-11.437	-10.245	1.00	0.00
ATOM 372	H	ASN A	29	147.257	-10.409	-8.482	1.00	0.00
ATOM 373	HA	ASN A	29	145.504	-12.576	-8.288	1.00	0.00
ATOM 374	1HB	ASN A	29	148.502	-12.869	-8.243	1.00	0.00
ATOM 375	2HB	ASN A	29	147.312	-13.959	-8.939	1.00	0.00
ATOM 376	1HD2	ASN A	29	149.378	-11.340	-9.485	1.00	0.00
ATOM 377	2HD2	ASN A	29	148.892	-10.980	-11.102	1.00	0.00
ATOM 378	N	PRO A	30	147.627	-12.366	-5.721	1.00	0.00
ATOM 379	CA	PRO A	30	147.823	-12.783	-4.329	1.00	0.00
ATOM 380	C	PRO A	30	146.865	-12.075	-3.372	1.00	0.00
ATOM 381	O	PRO A	30	146.976	-10.868	-3.155	1.00	0.00
ATOM 382	CB	PRO A	30	149.265	-12.367	-4.042	1.00	0.00
ATOM 383	CG	PRO A	30	149.496	-11.195	-4.930	1.00	0.00
ATOM 384	CD	PRO A	30	148.698	-11.457	-6.179	1.00	0.00
ATOM 385	HA	PRO A	30	147.725	-13.853	-4.217	1.00	0.00
ATOM 386	1HB	PRO A	30	149.365	-12.102	-2.999	1.00	0.00
ATOM 387	2HB	PRO A	30	149.933	-13.180	-4.280	1.00	0.00
ATOM 388	1HG	PRO A	30	149.150	-10.293	-4.446	1.00	0.00
ATOM 389	2HG	PRO A	30	150.546	-11.115	-5.167	1.00	0.00

ATOM 390	1HD	PRO A	30	148.286	-10.535	-6.561	1.00	0.00
ATOM 391	2HD	PRO A	30	149.316	-11.932	-6.923	1.00	0.00
ATOM 392	N	PRO A	31	145.906	-12.813	-2.784	1.00	0.00
ATOM 393	CA	PRO A	31	144.930	-12.241	-1.850	1.00	0.00
ATOM 394	C	PRO A	31	145.590	-11.713	-0.581	1.00	0.00
ATOM 395	O	PRO A	31	145.765	-12.448	0.391	1.00	0.00
ATOM 396	CB	PRO A	31	144.001	-13.417	-1.519	1.00	0.00
ATOM 397	CG	PRO A	31	144.257	-14.435	-2.578	1.00	0.00
ATOM 398	CD	PRO A	31	145.692	-14.255	-2.980	1.00	0.00
ATOM 399	HA	PRO A	31	144.361	-11.448	-2.313	1.00	0.00
ATOM 400	1HB	PRO A	31	144.239	-13.801	-0.538	1.00	0.00
ATOM 401	2HB	PRO A	31	142.973	-13.082	-1.537	1.00	0.00
ATOM 402	1HG	PRO A	31	144.100	-15.427	-2.181	1.00	0.00
ATOM 403	2HG	PRO A	31	143.607	-14.259	-3.422	1.00	0.00
ATOM 404	1HD	PRO A	31	146.340	-14.834	-2.339	1.00	0.00
ATOM 405	2HD	PRO A	31	145.834	-14.531	-4.014	1.00	0.00
ATOM 406	N	PHE A	32	145.952	-10.435	-0.595	1.00	0.00
ATOM 407	CA	PHE A	32	146.592	-9.808	0.557	1.00	0.00
ATOM 408	C	PHE A	32	145.757	-8.643	1.076	1.00	0.00
ATOM 409	O	PHE A	32	145.181	-7.883	0.297	1.00	0.00
ATOM 410	CB	PHE A	32	147.994	-9.321	0.186	1.00	0.00
ATOM 411	CG	PHE A	32	148.015	-8.391	-0.994	1.00	0.00
ATOM 412	CD1	PHE A	32	148.523	-8.809	-2.213	1.00	0.00
ATOM 413	CD2	PHE A	32	147.527	-7.099	-0.882	1.00	0.00
ATOM 414	CE1	PHE A	32	148.543	-7.956	-3.300	1.00	0.00
ATOM 415	CE2	PHE A	32	147.545	-6.241	-1.966	1.00	0.00
ATOM 416	CZ	PHE A	32	148.055	-6.671	-3.176	1.00	0.00
ATOM 417	H	PHE A	32	145.786	-9.899	-1.399	1.00	0.00
ATOM 418	HA	PHE A	32	146.674	-10.552	1.335	1.00	0.00

ATOM 419	1HB	PHE A	32	148.419	-8.797	1.029	1.00	0.00
ATOM 420	2HB	PHE A	32	148.613	-10.174	-0.051	1.00	0.00
ATOM 421	HD1	PHE A	32	148.905	-9.814	-2.311	1.00	0.00
ATOM 422	HD2	PHE A	32	147.129	-6.763	0.063	1.00	0.00
ATOM 423	HE1	PHE A	32	148.943	-8.294	-4.245	1.00	0.00
ATOM 424	HE2	PHE A	32	147.161	-5.236	-1.866	1.00	0.00
ATOM 425	HZ	PHE A	32	148.069	-6.002	-4.024	1.00	0.00
ATOM 426	N	TYR A	33	145.693	-8.510	2.396	1.00	0.00
ATOM 427	CA	TYR A	33	144.927	-7.438	3.020	1.00	0.00
ATOM 428	C	TYR A	33	145.848	-6.469	3.756	1.00	0.00
ATOM 429	O	TYR A	33	146.851	-6.875	4.343	1.00	0.00
ATOM 430	CB	TYR A	33	143.897	-8.017	3.993	1.00	0.00
ATOM 431	CG	TYR A	33	142.585	-8.384	3.336	1.00	0.00
ATOM 432	CD1	TYR A	33	142.091	-9.681	3.404	1.00	0.00
ATOM 433	CD2	TYR A	33	141.841	-7.434	2.647	1.00	0.00
ATOM 434	CE1	TYR A	33	140.893	-10.021	2.806	1.00	0.00
ATOM 435	CE2	TYR A	33	140.642	-7.766	2.047	1.00	0.00
ATOM 436	CZ	TYR A	33	140.173	-9.060	2.128	1.00	0.00
ATOM 437	OH	TYR A	33	138.979	-9.394	1.531	1.00	0.00
ATOM 438	H	TYR A	33	146.173	-9.148	2.965	1.00	0.00
ATOM 439	HA	TYR A	33	144.409	-6.901	2.240	1.00	0.00
ATOM 440	1HB	TYR A	33	144.302	-8.910	4.446	1.00	0.00
ATOM 441	2HB	TYR A	33	143.691	-7.290	4.764	1.00	0.00
ATOM 442	HD1	TYR A	33	142.658	-10.432	3.937	1.00	0.00
ATOM 443	HD2	TYR A	33	142.212	-6.422	2.585	1.00	0.00
ATOM 444	HE1	TYR A	33	140.525	-11.034	2.870	1.00	0.00
ATOM 445	HE2	TYR A	33	140.079	-7.013	1.516	1.00	0.00
ATOM 446	HH	TYR A	33	139.062	-10.249	1.103	1.00	0.00
ATOM 447	N	GLY A	34	145.499	-5.187	3.720	1.00	0.00

ATOM 448	CA	GLY A	34	146.305	-4.181	4.387	1.00	0.00
ATOM 449	C	GLY A	34	145.514	-2.932	4.719	1.00	0.00
ATOM 450	O	GLY A	34	144.341	-2.817	4.363	1.00	0.00
ATOM 451	H	GLY A	34	144.688	-4.922	3.237	1.00	0.00
ATOM 452	1HA	GLY A	34	146.698	-4.599	5.303	1.00	0.00
ATOM 453	2HA	GLY A	34	147.129	-3.912	3.744	1.00	0.00
ATOM 454	N	VAL A	35	146.158	-1.992	5.406	1.00	0.00
ATOM 455	CA	VAL A	35	145.509	-0.744	5.787	1.00	0.00
ATOM 456	C	VAL A	35	146.233	0.457	5.185	1.00	0.00
ATOM 457	O	VAL A	35	147.455	0.447	5.037	1.00	0.00
ATOM 458	CB	VAL A	35	145.454	-0.586	7.320	1.00	0.00
ATOM 459	CG1	VAL A	35	146.856	-0.544	7.909	1.00	0.00
ATOM 460	CG2	VAL A	35	144.668	0.660	7.704	1.00	0.00
ATOM 461	H	VAL A	35	147.092	-2.143	5.661	1.00	0.00
ATOM 462	HA	VAL A	35	144.496	-0.767	5.412	1.00	0.00
ATOM 463	HB	VAL A	35	144.943	-1.445	7.731	1.00	0.00
ATOM 464	1HG1	VAL A	35	147.558	-0.950	7.195	1.00	0.00
ATOM 465	2HG1	VAL A	35	146.884	-1.131	8.815	1.00	0.00
ATOM 466	3HG1	VAL A	35	147.122	0.479	8.134	1.00	0.00
ATOM 467	1HG2	VAL A	35	144.784	0.847	8.761	1.00	0.00
ATOM 468	2HG2	VAL A	35	143.623	0.511	7.476	1.00	0.00
ATOM 469	3HG2	VAL A	35	145.041	1.506	7.146	1.00	0.00
ATOM 470	N	ILE A	36	145.471	1.489	4.839	1.00	0.00
ATOM 471	CA	ILE A	36	146.040	2.697	4.254	1.00	0.00
ATOM 472	C	ILE A	36	146.923	3.427	5.259	1.00	0.00
ATOM 473	O	ILE A	36	146.554	3.588	6.423	1.00	0.00
ATOM 474	CB	ILE A	36	144.940	3.656	3.758	1.00	0.00
ATOM 475	CG1	ILE A	36	143.946	2.911	2.864	1.00	0.00
ATOM 476	CG2	ILE A	36	145.556	4.830	3.011	1.00	0.00

ATOM 477	CD1	ILE A	36	142.842	3.792	2.320	1.00	0.00
ATOM 478	H	ILE A	36	144.502	1.437	4.982	1.00	0.00
ATOM 479	HA	ILE A	36	146.642	2.404	3.405	1.00	0.00
ATOM 480	HB	ILE A	36	144.417	4.045	4.620	1.00	0.00
ATOM 481	1HG1	ILE A	36	144.475	2.488	2.024	1.00	0.00
ATOM 482	2HG1	ILE A	36	143.487	2.116	3.433	1.00	0.00
ATOM 483	1HG2	ILE A	36	145.023	5.736	3.261	1.00	0.00
ATOM 484	2HG2	ILE A	36	145.488	4.655	1.947	1.00	0.00
ATOM 485	3HG2	ILE A	36	146.593	4.933	3.293	1.00	0.00
ATOM 486	1HD1	ILE A	36	142.744	3.629	1.256	1.00	0.00
ATOM 487	2HD1	ILE A	36	143.084	4.828	2.505	1.00	0.00
ATOM 488	3HD1	ILE A	36	141.911	3.546	2.810	1.00	0.00
ATOM 489	N	ARG A	37	148.092	3.867	4.803	1.00	0.00
ATOM 490	CA	ARG A	37	149.029	4.580	5.663	1.00	0.00
ATOM 491	C	ARG A	37	149.269	5.996	5.154	1.00	0.00
ATOM 492	O	ARG A	37	148.892	6.972	5.803	1.00	0.00
ATOM 493	CB	ARG A	37	150.356	3.822	5.743	1.00	0.00
ATOM 494	CG	ARG A	37	150.197	2.352	6.097	1.00	0.00
ATOM 495	CD	ARG A	37	150.021	2.156	7.594	1.00	0.00
ATOM 496	NE	ARG A	37	148.758	2.713	8.076	1.00	0.00
ATOM 497	CZ	ARG A	37	148.512	3.000	9.352	1.00	0.00
ATOM 498	NH1	ARG A	37	149.439	2.784	10.277	1.00	0.00
ATOM 499	NH2	ARG A	37	147.338	3.504	9.704	1.00	0.00
ATOM 500	H	ARG A	37	148.330	3.708	3.865	1.00	0.00
ATOM 501	HA	ARG A	37	148.597	4.635	6.651	1.00	0.00
ATOM 502	1HB	ARG A	37	150.853	3.888	4.786	1.00	0.00
ATOM 503	2HB	ARG A	37	150.978	4.286	6.494	1.00	0.00
ATOM 504	1HG	ARG A	37	149.327	1.962	5.589	1.00	0.00
ATOM 505	2HG	ARG A	37	151.077	1.817	5.773	1.00	0.00

ATOM 506	1HD	ARG	A	37	150.043	1.100	7.811	1.00	0.00
ATOM 507	2HD	ARG	A	37	150.836	2.645	8.106	1.00	0.00
ATOM 508	HE	ARG	A	37	148.056	2.880	7.413	1.00	0.00
ATOM 509	1HH1	ARG	A	37	150.326	2.403	10.019	1.00	0.00
ATOM 510	2HH1	ARG	A	37	149.249	3.002	11.235	1.00	0.00
ATOM 511	1HH2	ARG	A	37	146.636	3.668	9.010	1.00	0.00
ATOM 512	2HH2	ARG	A	37	147.153	3.719	10.663	1.00	0.00
ATOM 513	N	TRP	A	38	149.898	6.105	3.988	1.00	0.00
ATOM 514	CA	TRP	A	38	150.187	7.404	3.394	1.00	0.00
ATOM 515	C	TRP	A	38	149.545	7.532	2.015	1.00	0.00
ATOM 516	O	TRP	A	38	149.685	6.650	1.169	1.00	0.00
ATOM 517	CB	TRP	A	38	151.700	7.620	3.290	1.00	0.00
ATOM 518	CG	TRP	A	38	152.081	8.807	2.453	1.00	0.00
ATOM 519	CD1	TRP	A	38	152.290	10.084	2.887	1.00	0.00
ATOM 520	CD2	TRP	A	38	152.288	8.824	1.036	1.00	0.00
ATOM 521	NE1	TRP	A	38	152.615	10.894	1.826	1.00	0.00
ATOM 522	CE2	TRP	A	38	152.621	10.144	0.679	1.00	0.00
ATOM 523	CE3	TRP	A	38	152.226	7.851	0.035	1.00	0.00
ATOM 524	CZ2	TRP	A	38	152.890	10.514	-0.637	1.00	0.00
ATOM 525	CZ3	TRP	A	38	152.494	8.218	-1.270	1.00	0.00
ATOM 526	CH2	TRP	A	38	152.823	9.540	-1.596	1.00	0.00
ATOM 527	H	TRP	A	38	150.175	5.290	3.516	1.00	0.00
ATOM 528	HA	TRP	A	38	149.770	8.163	4.041	1.00	0.00
ATOM 529	1HB	TRP	A	38	152.106	7.768	4.280	1.00	0.00
ATOM 530	2HB	TRP	A	38	152.152	6.742	2.850	1.00	0.00
ATOM 531	HD1	TRP	A	38	152.207	10.398	3.917	1.00	0.00
ATOM 532	HE1	TRP	A	38	152.812	11.853	1.882	1.00	0.00
ATOM 533	HE3	TRP	A	38	151.975	6.827	0.266	1.00	0.00
ATOM 534	HZ2	TRP	A	38	153.142	11.529	-0.906	1.00	0.00

ATOM 535	HZ3	TRP	A	38	152.451	7.480	-2.057	1.00	0.00
ATOM 536	HH2	TRP	A	38	153.025	9.783	-2.630	1.00	0.00
ATOM 537	N	ILE	A	39	148.851	8.643	1.797	1.00	0.00
ATOM 538	CA	ILE	A	39	148.196	8.901	0.522	1.00	0.00
ATOM 539	C	ILE	A	39	148.696	10.208	-0.082	1.00	0.00
ATOM 540	O	ILE	A	39	148.342	11.292	0.385	1.00	0.00
ATOM 541	CB	ILE	A	39	146.665	8.969	0.676	1.00	0.00
ATOM 542	CG1	ILE	A	39	146.155	7.763	1.468	1.00	0.00
ATOM 543	CG2	ILE	A	39	145.997	9.034	-0.689	1.00	0.00
ATOM 544	CD1	ILE	A	39	144.700	7.873	1.867	1.00	0.00
ATOM 545	H	ILE	A	39	148.784	9.312	2.511	1.00	0.00
ATOM 546	HA	ILE	A	39	148.436	8.089	-0.149	1.00	0.00
ATOM 547	HB	ILE	A	39	146.419	9.873	1.212	1.00	0.00
ATOM 548	1HG1	ILE	A	39	146.267	6.872	0.867	1.00	0.00
ATOM 549	2HG1	ILE	A	39	146.741	7.659	2.369	1.00	0.00
ATOM 550	1HG2	ILE	A	39	144.932	9.165	-0.563	1.00	0.00
ATOM 551	2HG2	ILE	A	39	146.186	8.116	-1.227	1.00	0.00
ATOM 552	3HG2	ILE	A	39	146.398	9.867	-1.247	1.00	0.00
ATOM 553	1HD1	ILE	A	39	144.343	8.870	1.656	1.00	0.00
ATOM 554	2HD1	ILE	A	39	144.601	7.672	2.924	1.00	0.00
ATOM 555	3HD1	ILE	A	39	144.118	7.156	1.308	1.00	0.00
ATOM 556	N	GLY	A	40	149.524	10.102	-1.116	1.00	0.00
ATOM 557	CA	GLY	A	40	150.062	11.288	-1.754	1.00	0.00
ATOM 558	C	GLY	A	40	150.687	10.994	-3.103	1.00	0.00
ATOM 559	O	GLY	A	40	150.507	9.911	-3.657	1.00	0.00
ATOM 560	H	GLY	A	40	149.775	9.213	-1.443	1.00	0.00
ATOM 561	1HA	GLY	A	40	149.266	12.005	-1.886	1.00	0.00
ATOM 562	2HA	GLY	A	40	150.812	11.719	-1.108	1.00	0.00
ATOM 563	N	GLN	A	41	151.419	11.969	-3.631	1.00	0.00

ATOM 564	CA	GLN A	41	152.074	11.822	-4.923	1.00	0.00
ATOM 565	C	GLN A	41	153.553	12.199	-4.826	1.00	0.00
ATOM 566	O	GLN A	41	153.888	13.351	-4.553	1.00	0.00
ATOM 567	CB	GLN A	41	151.378	12.701	-5.960	1.00	0.00
ATOM 568	CG	GLN A	41	149.865	12.552	-5.965	1.00	0.00
ATOM 569	CD	GLN A	41	149.150	13.875	-6.144	1.00	0.00
ATOM 570	OE1	GLN A	41	149.087	14.690	-5.223	1.00	0.00
ATOM 571	NE2	GLN A	41	148.605	14.096	-7.334	1.00	0.00
ATOM 572	H	GLN A	41	151.520	12.810	-3.140	1.00	0.00
ATOM 573	HA	GLN A	41	151.991	10.790	-5.225	1.00	0.00
ATOM 574	1HB	GLN A	41	151.613	13.735	-5.756	1.00	0.00
ATOM 575	2HB	GLN A	41	151.747	12.445	-6.940	1.00	0.00
ATOM 576	1HG	GLN A	41	149.582	11.896	-6.775	1.00	0.00
ATOM 577	2HG	GLN A	41	149.556	12.115	-5.027	1.00	0.00
ATOM 578	1HE2	GLN A	41	148.695	13.401	-8.019	1.00	0.00
ATOM 579	2HE2	GLN A	41	148.137	14.944	-7.479	1.00	0.00
ATOM 580	N	PRO A	42	154.461	11.230	-5.046	1.00	0.00
ATOM 581	CA	PRO A	42	155.905	11.476	-4.976	1.00	0.00
ATOM 582	C	PRO A	42	156.352	12.574	-5.936	1.00	0.00
ATOM 583	O	PRO A	42	155.656	12.888	-6.902	1.00	0.00
ATOM 584	CB	PRO A	42	156.522	10.133	-5.379	1.00	0.00
ATOM 585	CG	PRO A	42	155.458	9.127	-5.104	1.00	0.00
ATOM 586	CD	PRO A	42	154.157	9.826	-5.377	1.00	0.00
ATOM 587	HA	PRO A	42	156.214	11.730	-3.974	1.00	0.00
ATOM 588	1HB	PRO A	42	156.785	10.154	-6.427	1.00	0.00
ATOM 589	2HB	PRO A	42	157.404	9.945	-4.785	1.00	0.00
ATOM 590	1HG	PRO A	42	155.573	8.279	-5.761	1.00	0.00
ATOM 591	2HG	PRO A	42	155.506	8.815	-4.071	1.00	0.00
ATOM 592	1HD	PRO A	42	153.885	9.725	-6.418	1.00	0.00

ATOM 593	2HD	PRO A	42	153.377	9.439	-4.739	1.00	0.00
ATOM 594	N	PRO A	43	157.525	13.177	-5.681	1.00	0.00
ATOM 595	CA	PRO A	43	158.062	14.246	-6.528	1.00	0.00
ATOM 596	C	PRO A	43	158.558	13.725	-7.871	1.00	0.00
ATOM 597	O	PRO A	43	159.736	13.402	-8.026	1.00	0.00
ATOM 598	CB	PRO A	43	159.228	14.795	-5.708	1.00	0.00
ATOM 599	CG	PRO A	43	159.660	13.656	-4.852	1.00	0.00
ATOM 600	CD	PRO A	43	158.418	12.864	-4.549	1.00	0.00
ATOM 601	HA	PRO A	43	157.333	15.026	-6.691	1.00	0.00
ATOM 602	1HB	PRO A	43	160.017	15.113	-6.372	1.00	0.00
ATOM 603	2HB	PRO A	43	158.892	15.631	-5.112	1.00	0.00
ATOM 604	1HG	PRO A	43	160.373	13.045	-5.386	1.00	0.00
ATOM 605	2HG	PRO A	43	160.098	14.029	-3.937	1.00	0.00
ATOM 606	1HD	PRO A	43	158.642	11.808	-4.517	1.00	0.00
ATOM 607	2HD	PRO A	43	157.982	13.186	-3.616	1.00	0.00
ATOM 608	N	GLY A	44	157.654	13.647	-8.841	1.00	0.00
ATOM 609	CA	GLY A	44	158.024	13.165	-10.157	1.00	0.00
ATOM 610	C	GLY A	44	156.836	12.647	-10.941	1.00	0.00
ATOM 611	O	GLY A	44	156.629	13.029	-12.093	1.00	0.00
ATOM 612	H	GLY A	44	156.730	13.918	-8.661	1.00	0.00
ATOM 613	1HA	GLY A	44	158.479	13.973	-10.709	1.00	0.00
ATOM 614	2HA	GLY A	44	158.745	12.368	-10.048	1.00	0.00
ATOM 615	N	LEU A	45	156.053	11.772	-10.319	1.00	0.00
ATOM 616	CA	LEU A	45	154.879	11.202	-10.969	1.00	0.00
ATOM 617	C	LEU A	45	153.616	11.510	-10.175	1.00	0.00
ATOM 618	O	LEU A	45	153.442	11.024	-9.058	1.00	0.00
ATOM 619	CB	LEU A	45	155.041	9.689	-11.125	1.00	0.00
ATOM 620	CG	LEU A	45	155.515	8.954	-9.869	1.00	0.00
ATOM 621	CD1	LEU A	45	155.162	7.475	-9.947	1.00	0.00

ATOM 622	CD2	LEU A	45	157.014	9.142	-9.678	1.00	0.00
ATOM 623	H	LEU A	45	156.268	11.505	-9.398	1.00	0.00
ATOM 624	HA	LEU A	45	154.794	11.648	-11.948	1.00	0.00
ATOM 625	1HB	LEU A	45	154.087	9.275	-11.421	1.00	0.00
ATOM 626	2HB	LEU A	45	155.755	9.503	-11.913	1.00	0.00
ATOM 627	HG	LEU A	45	155.013	9.372	-9.007	1.00	0.00
ATOM 628	1HD1	LEU A	45	154.447	7.235	-9.174	1.00	0.00
ATOM 629	2HD1	LEU A	45	156.054	6.882	-9.808	1.00	0.00
ATOM 630	3HD1	LEU A	45	154.733	7.256	-10.913	1.00	0.00
ATOM 631	1HD2	LEU A	45	157.190	9.824	-8.860	1.00	0.00
ATOM 632	2HD2	LEU A	45	157.446	9.547	-10.581	1.00	0.00
ATOM 633	3HD2	LEU A	45	157.472	8.189	-9.457	1.00	0.00
ATOM 634	N	ASN A	46	152.733	12.316	-10.757	1.00	0.00
ATOM 635	CA	ASN A	46	151.489	12.675	-10.091	1.00	0.00
ATOM 636	C	ASN A	46	150.524	11.495	-10.090	1.00	0.00
ATOM 637	O	ASN A	46	149.963	11.136	-11.126	1.00	0.00
ATOM 638	CB	ASN A	46	150.846	13.877	-10.787	1.00	0.00
ATOM 639	CG	ASN A	46	149.797	14.553	-9.926	1.00	0.00
ATOM 640	OD1	ASN A	46	150.121	15.335	-9.032	1.00	0.00
ATOM 641	ND2	ASN A	46	148.530	14.254	-10.192	1.00	0.00
ATOM 642	H	ASN A	46	152.923	12.673	-11.649	1.00	0.00
ATOM 643	HA	ASN A	46	151.720	12.939	-9.070	1.00	0.00
ATOM 644	1HB	ASN A	46	151.612	14.600	-11.022	1.00	0.00
ATOM 645	2HB	ASN A	46	150.376	13.546	-11.701	1.00	0.00
ATOM 646	1HD2	ASN A	46	148.347	13.622	-10.919	1.00	0.00
ATOM 647	2HD2	ASN A	46	147.831	14.677	-9.651	1.00	0.00
ATOM 648	N	GLU A	47	150.338	10.894	-8.921	1.00	0.00
ATOM 649	CA	GLU A	47	149.443	9.754	-8.778	1.00	0.00
ATOM 650	C	GLU A	47	149.162	9.466	-7.308	1.00	0.00

ATOM 651	O	GLU A	47	150.081	9.199	-6.533	1.00	0.00
ATOM 652	CB	GLU A	47	150.045	8.515	-9.446	1.00	0.00
ATOM 653	CG	GLU A	47	151.547	8.381	-9.246	1.00	0.00
ATOM 654	CD	GLU A	47	152.173	7.370	-10.187	1.00	0.00
ATOM 655	OE1	GLU A	47	152.385	6.215	-9.762	1.00	0.00
ATOM 656	OE2	GLU A	47	152.450	7.733	-11.350	1.00	0.00
ATOM 657	H	GLU A	47	150.816	11.227	-8.133	1.00	0.00
ATOM 658	HA	GLU A	47	148.513	9.999	-9.269	1.00	0.00
ATOM 659	1HB	GLU A	47	149.571	7.634	-9.039	1.00	0.00
ATOM 660	2HB	GLU A	47	149.849	8.561	-10.507	1.00	0.00
ATOM 661	1HG	GLU A	47	152.009	9.342	-9.419	1.00	0.00
ATOM 662	2HG	GLU A	47	151.737	8.070	-8.229	1.00	0.00
ATOM 663	N	VAL A	48	147.890	9.511	-6.928	1.00	0.00
ATOM 664	CA	VAL A	48	147.501	9.244	-5.550	1.00	0.00
ATOM 665	C	VAL A	48	147.787	7.793	-5.183	1.00	0.00
ATOM 666	O	VAL A	48	147.023	6.893	-5.532	1.00	0.00
ATOM 667	CB	VAL A	48	146.007	9.539	-5.318	1.00	0.00
ATOM 668	CG1	VAL A	48	145.668	9.451	-3.838	1.00	0.00
ATOM 669	CG2	VAL A	48	145.641	10.906	-5.876	1.00	0.00
ATOM 670	H	VAL A	48	147.199	9.723	-7.590	1.00	0.00
ATOM 671	HA	VAL A	48	148.082	9.889	-4.906	1.00	0.00
ATOM 672	HB	VAL A	48	145.428	8.793	-5.841	1.00	0.00
ATOM 673	1HG1	VAL A	48	144.658	9.798	-3.679	1.00	0.00
ATOM 674	2HG1	VAL A	48	146.354	10.065	-3.274	1.00	0.00
ATOM 675	3HG1	VAL A	48	145.752	8.425	-3.511	1.00	0.00
ATOM 676	1HG2	VAL A	48	144.683	11.210	-5.480	1.00	0.00
ATOM 677	2HG2	VAL A	48	145.584	10.851	-6.953	1.00	0.00
ATOM 678	3HG2	VAL A	48	146.393	11.625	-5.590	1.00	0.00
ATOM 679	N	LEU A	49	148.894	7.572	-4.483	1.00	0.00

ATOM 680	CA	LEU A	49	149.282	6.227	-4.076	1.00	0.00
ATOM 681	C	LEU A	49	149.109	6.044	-2.574	1.00	0.00
ATOM 682	O	LEU A	49	149.761	6.719	-1.778	1.00	0.00
ATOM 683	CB	LEU A	49	150.735	5.952	-4.470	1.00	0.00
ATOM 684	CG	LEU A	49	151.015	5.988	-5.973	1.00	0.00
ATOM 685	CD1	LEU A	49	152.444	6.438	-6.238	1.00	0.00
ATOM 686	CD2	LEU A	49	150.760	4.623	-6.594	1.00	0.00
ATOM 687	H	LEU A	49	149.464	8.329	-4.238	1.00	0.00
ATOM 688	HA	LEU A	49	148.641	5.527	-4.589	1.00	0.00
ATOM 689	1HB	LEU A	49	151.362	6.690	-3.990	1.00	0.00
ATOM 690	2HB	LEU A	49	151.008	4.977	-4.099	1.00	0.00
ATOM 691	HG	LEU A	49	150.350	6.699	-6.441	1.00	0.00
ATOM 692	1HD1	LEU A	49	152.819	5.943	-7.122	1.00	0.00
ATOM 693	2HD1	LEU A	49	153.065	6.181	-5.392	1.00	0.00
ATOM 694	3HD1	LEU A	49	152.463	7.507	-6.388	1.00	0.00
ATOM 695	1HD2	LEU A	49	150.851	4.693	-7.667	1.00	0.00
ATOM 696	2HD2	LEU A	49	149.765	4.292	-6.337	1.00	0.00
ATOM 697	3HD2	LEU A	49	151.484	3.915	-6.217	1.00	0.00
ATOM 698	N	ALA A	50	148.226	5.129	-2.194	1.00	0.00
ATOM 699	CA	ALA A	50	147.969	4.861	-0.786	1.00	0.00
ATOM 700	C	ALA A	50	148.858	3.732	-0.273	1.00	0.00
ATOM 701	O	ALA A	50	148.738	2.588	-0.710	1.00	0.00
ATOM 702	CB	ALA A	50	146.502	4.520	-0.573	1.00	0.00
ATOM 703	H	ALA A	50	147.735	4.623	-2.875	1.00	0.00
ATOM 704	HA	ALA A	50	148.190	5.762	-0.233	1.00	0.00
ATOM 705	1HB	ALA A	50	146.135	3.962	-1.421	1.00	0.00
ATOM 706	2HB	ALA A	50	145.933	5.431	-0.467	1.00	0.00
ATOM 707	3HB	ALA A	50	146.398	3.923	0.322	1.00	0.00
ATOM 708	N	GLY A	51	149.748	4.062	0.655	1.00	0.00

ATOM 709	CA	GLY A	51	150.644	3.065	1.212	1.00	0.00
ATOM 710	C	GLY A	51	149.919	2.054	2.078	1.00	0.00
ATOM 711	O	GLY A	51	149.415	2.391	3.149	1.00	0.00
ATOM 712	H	GLY A	51	149.798	4.991	0.966	1.00	0.00
ATOM 713	1HA	GLY A	51	151.132	2.543	0.402	1.00	0.00
ATOM 714	2HA	GLY A	51	151.393	3.562	1.810	1.00	0.00
ATOM 715	N	LEU A	52	149.865	0.809	1.614	1.00	0.00
ATOM 716	CA	LEU A	52	149.195	-0.253	2.354	1.00	0.00
ATOM 717	C	LEU A	52	150.209	-1.163	3.039	1.00	0.00
ATOM 718	O	LEU A	52	151.303	-1.390	2.523	1.00	0.00
ATOM 719	CB	LEU A	52	148.306	-1.073	1.417	1.00	0.00
ATOM 720	CG	LEU A	52	147.107	-0.322	0.839	1.00	0.00
ATOM 721	CD1	LEU A	52	146.618	-0.994	-0.434	1.00	0.00
ATOM 722	CD2	LEU A	52	145.986	-0.238	1.865	1.00	0.00
ATOM 723	H	LEU A	52	150.286	0.601	0.753	1.00	0.00
ATOM 724	HA	LEU A	52	148.576	0.209	3.110	1.00	0.00
ATOM 725	1HB	LEU A	52	148.914	-1.427	0.597	1.00	0.00
ATOM 726	2HB	LEU A	52	147.937	-1.928	1.963	1.00	0.00
ATOM 727	HG	LEU A	52	147.408	0.686	0.589	1.00	0.00
ATOM 728	1HD1	LEU A	52	147.424	-1.565	-0.872	1.00	0.00
ATOM 729	2HD1	LEU A	52	146.287	-0.242	-1.134	1.00	0.00
ATOM 730	3HD1	LEU A	52	145.796	-1.654	-0.199	1.00	0.00
ATOM 731	1HD2	LEU A	52	145.033	-0.274	1.359	1.00	0.00
ATOM 732	2HD2	LEU A	52	146.068	0.689	2.413	1.00	0.00
ATOM 733	3HD2	LEU A	52	146.063	-1.069	2.549	1.00	0.00
ATOM 734	N	GLU A	53	149.838	-1.681	4.206	1.00	0.00
ATOM 735	CA	GLU A	53	150.714	-2.566	4.963	1.00	0.00
ATOM 736	C	GLU A	53	150.143	-3.980	5.022	1.00	0.00
ATOM 737	O	GLU A	53	149.157	-4.233	5.713	1.00	0.00

ATOM 738	CB	GLU A	53	150.916	-2.028	6.381	1.00	0.00
ATOM 739	CG	GLU A	53	151.852	-2.875	7.226	1.00	0.00
ATOM 740	CD	GLU A	53	151.363	-3.037	8.653	1.00	0.00
ATOM 741	OE1	GLU A	53	151.301	-2.022	9.377	1.00	0.00
ATOM 742	OE2	GLU A	53	151.042	-4.179	9.044	1.00	0.00
ATOM 743	H	GLU A	53	148.952	-1.463	4.565	1.00	0.00
ATOM 744	HA	GLU A	53	151.669	-2.597	4.460	1.00	0.00
ATOM 745	1HB	GLU A	53	151.326	-1.030	6.319	1.00	0.00
ATOM 746	2HB	GLU A	53	149.958	-1.984	6.876	1.00	0.00
ATOM 747	1HG	GLU A	53	151.934	-3.854	6.777	1.00	0.00
ATOM 748	2HG	GLU A	53	152.824	-2.406	7.245	1.00	0.00
ATOM 749	N	LEU A	54	150.769	-4.896	4.290	1.00	0.00
ATOM 750	CA	LEU A	54	150.323	-6.284	4.257	1.00	0.00
ATOM 751	C	LEU A	54	150.508	-6.947	5.619	1.00	0.00
ATOM 752	O	LEU A	54	151.536	-6.770	6.272	1.00	0.00
ATOM 753	CB	LEU A	54	151.092	-7.064	3.189	1.00	0.00
ATOM 754	CG	LEU A	54	151.112	-6.416	1.804	1.00	0.00
ATOM 755	CD1	LEU A	54	152.283	-6.938	0.987	1.00	0.00
ATOM 756	CD2	LEU A	54	149.799	-6.672	1.079	1.00	0.00
ATOM 757	H	LEU A	54	151.550	-4.633	3.759	1.00	0.00
ATOM 758	HA	LEU A	54	149.273	-6.289	4.009	1.00	0.00
ATOM 759	1HB	LEU A	54	152.113	-7.182	3.524	1.00	0.00
ATOM 760	2HB	LEU A	54	150.646	-8.043	3.097	1.00	0.00
ATOM 761	HG	LEU A	54	151.232	-5.348	1.914	1.00	0.00
ATOM 762	1HD1	LEU A	54	153.188	-6.878	1.575	1.00	0.00
ATOM 763	2HD1	LEU A	54	152.394	-6.342	0.094	1.00	0.00
ATOM 764	3HD1	LEU A	54	152.101	-7.967	0.713	1.00	0.00
ATOM 765	1HD2	LEU A	54	149.009	-6.810	1.802	1.00	0.00
ATOM 766	2HD2	LEU A	54	149.890	-7.559	0.471	1.00	0.00

ATOM 767	3HD2	LEU	A	54	149.565	-5.826	0.449	1.00	0.00
ATOM 768	N	GLU	A	55	149.506	-7.711	6.039	1.00	0.00
ATOM 769	CA	GLU	A	55	149.557	-8.401	7.323	1.00	0.00
ATOM 770	C	GLU	A	55	150.544	-9.563	7.278	1.00	0.00
ATOM 771	O	GLU	A	55	151.175	-9.894	8.280	1.00	0.00
ATOM 772	CB	GLU	A	55	148.167	-8.912	7.708	1.00	0.00
ATOM 773	CG	GLU	A	55	147.280	-7.850	8.338	1.00	0.00
ATOM 774	CD	GLU	A	55	147.327	-7.878	9.853	1.00	0.00
ATOM 775	OE1	GLU	A	55	146.247	-7.930	10.479	1.00	0.00
ATOM 776	OE2	GLU	A	55	148.442	-7.847	10.414	1.00	0.00
ATOM 777	H	GLU	A	55	148.712	-7.813	5.474	1.00	0.00
ATOM 778	HA	GLU	A	55	149.888	-7.692	8.067	1.00	0.00
ATOM 779	1HB	GLU	A	55	147.674	-9.281	6.821	1.00	0.00
ATOM 780	2HB	GLU	A	55	148.277	-9.724	8.411	1.00	0.00
ATOM 781	1HG	GLU	A	55	147.610	-6.879	8.001	1.00	0.00
ATOM 782	2HG	GLU	A	55	146.261	-8.015	8.020	1.00	0.00
ATOM 783	N	ASP	A	56	150.671	-10.178	6.107	1.00	0.00
ATOM 784	CA	ASP	A	56	151.582	-11.303	5.929	1.00	0.00
ATOM 785	C	ASP	A	56	152.945	-10.828	5.438	1.00	0.00
ATOM 786	O	ASP	A	56	153.040	-10.080	4.466	1.00	0.00
ATOM 787	CB	ASP	A	56	150.994	-12.311	4.939	1.00	0.00
ATOM 788	CG	ASP	A	56	151.316	-13.745	5.313	1.00	0.00
ATOM 789	OD1	ASP	A	56	151.513	-14.568	4.395	1.00	0.00
ATOM 790	OD2	ASP	A	56	151.373	-14.044	6.525	1.00	0.00
ATOM 791	H	ASP	A	56	150.141	-9.868	5.343	1.00	0.00
ATOM 792	HA	ASP	A	56	151.705	-11.785	6.888	1.00	0.00
ATOM 793	1HB	ASP	A	56	149.920	-12.198	4.916	1.00	0.00
ATOM 794	2HB	ASP	A	56	151.394	-12.116	3.955	1.00	0.00
ATOM 795	N	GLU	A	57	154.000	-11.268	6.118	1.00	0.00

ATOM 796	CA	GLU A	57	155.359	-10.889	5.751	1.00	0.00
ATOM 797	C	GLU A	57	155.757	-11.512	4.417	1.00	0.00
ATOM 798	O	GLU A	57	156.062	-12.703	4.343	1.00	0.00
ATOM 799	CB	GLU A	57	156.343	-11.318	6.842	1.00	0.00
ATOM 800	CG	GLU A	57	156.235	-10.496	8.115	1.00	0.00
ATOM 801	CD	GLU A	57	156.350	-11.343	9.367	1.00	0.00
ATOM 802	OE1	GLU A	57	157.448	-11.381	9.961	1.00	0.00
ATOM 803	OE2	GLU A	57	155.340	-11.968	9.755	1.00	0.00
ATOM 804	H	GLU A	57	153.860	-11.863	6.884	1.00	0.00
ATOM 805	HA	GLU A	57	155.388	-9.814	5.656	1.00	0.00
ATOM 806	1HB	GLU A	57	156.157	-12.353	7.091	1.00	0.00
ATOM 807	2HB	GLU A	57	157.349	-11.223	6.460	1.00	0.00
ATOM 808	1HG	GLU A	57	157.027	-9.762	8.123	1.00	0.00
ATOM 809	2HG	GLU A	57	155.281	-9.991	8.124	1.00	0.00
ATOM 810	N	CYS A	58	155.754	-10.699	3.366	1.00	0.00
ATOM 811	CA	CYS A	58	156.115	-11.172	2.034	1.00	0.00
ATOM 812	C	CYS A	58	157.485	-10.640	1.622	1.00	0.00
ATOM 813	O	CYS A	58	157.775	-9.454	1.782	1.00	0.00
ATOM 814	CB	CYS A	58	155.060	-10.741	1.013	1.00	0.00
ATOM 815	SG	CYS A	58	153.723	-11.936	0.785	1.00	0.00
ATOM 816	H	CYS A	58	155.501	-9.760	3.488	1.00	0.00
ATOM 817	HA	CYS A	58	156.155	-12.250	2.065	1.00	0.00
ATOM 818	1HB	CYS A	58	154.616	-9.811	1.335	1.00	0.00
ATOM 819	2HB	CYS A	58	155.537	-10.592	0.055	1.00	0.00
ATOM 820	HG	CYS A	58	152.891	-11.484	0.940	1.00	0.00
ATOM 821	N	ALA A	59	158.322	-11.525	1.092	1.00	0.00
ATOM 822	CA	ALA A	59	159.660	-11.145	0.658	1.00	0.00
ATOM 823	C	ALA A	59	159.602	-10.239	-0.568	1.00	0.00
ATOM 824	O	ALA A	59	158.858	-10.503	-1.512	1.00	0.00

ATOM 825	CB	ALA A	59	160.490	-12.385	0.361	1.00	0.00
ATOM 826	H	ALA A	59	158.033	-12.456	0.991	1.00	0.00
ATOM 827	HA	ALA A	59	160.134	-10.608	1.468	1.00	0.00
ATOM 828	1HB	ALA A	59	160.078	-13.229	0.894	1.00	0.00
ATOM 829	2HB	ALA A	59	161.509	-12.221	0.679	1.00	0.00
ATOM 830	3HB	ALA A	59	160.473	-12.585	-0.700	1.00	0.00
ATOM 831	N	GLY A	60	160.393	-9.171	-0.546	1.00	0.00
ATOM 832	CA	GLY A	60	160.417	-8.243	-1.660	1.00	0.00
ATOM 833	C	GLY A	60	159.619	-6.984	-1.385	1.00	0.00
ATOM 834	O	GLY A	60	159.093	-6.359	-2.306	1.00	0.00
ATOM 835	H	GLY A	60	160.966	-9.012	0.234	1.00	0.00
ATOM 836	1HA	GLY A	60	161.441	-7.970	-1.866	1.00	0.00
ATOM 837	2HA	GLY A	60	160.005	-8.733	-2.531	1.00	0.00
ATOM 838	N	CYS A	61	159.528	-6.611	-0.113	1.00	0.00
ATOM 839	CA	CYS A	61	158.788	-5.417	0.283	1.00	0.00
ATOM 840	C	CYS A	61	159.610	-4.561	1.242	1.00	0.00
ATOM 841	O	CYS A	61	160.560	-5.040	1.859	1.00	0.00
ATOM 842	CB	CYS A	61	157.462	-5.808	0.938	1.00	0.00
ATOM 843	SG	CYS A	61	156.438	-6.906	-0.068	1.00	0.00
ATOM 844	H	CYS A	61	159.969	-7.150	0.577	1.00	0.00
ATOM 845	HA	CYS A	61	158.584	-4.843	-0.609	1.00	0.00
ATOM 846	1HB	CYS A	61	157.665	-6.311	1.871	1.00	0.00
ATOM 847	2HB	CYS A	61	156.890	-4.912	1.135	1.00	0.00
ATOM 848	HG	CYS A	61	156.146	-7.632	0.488	1.00	0.00
ATOM 849	N	THR A	62	159.235	-3.291	1.361	1.00	0.00
ATOM 850	CA	THR A	62	159.937	-2.367	2.245	1.00	0.00
ATOM 851	C	THR A	62	159.224	-2.251	3.587	1.00	0.00
ATOM 852	O	THR A	62	158.216	-2.917	3.826	1.00	0.00
ATOM 853	CB	THR A	62	160.047	-0.989	1.592	1.00	0.00

ATOM 854	OG1	THR A	62	158.778	-0.363	1.524	1.00	0.00
ATOM 855	CG2	THR A	62	160.612	-1.034	0.188	1.00	0.00
ATOM 856	H	THR A	62	158.469	-2.968	0.842	1.00	0.00
ATOM 857	HA	THR A	62	160.930	-2.758	2.410	1.00	0.00
ATOM 858	HB	THR A	62	160.699	-0.370	2.190	1.00	0.00
ATOM 859	HG1	THR A	62	158.171	-0.923	1.034	1.00	0.00
ATOM 860	1HG2	THR A	62	159.845	-1.363	-0.498	1.00	0.00
ATOM 861	2HG2	THR A	62	161.442	-1.725	0.157	1.00	0.00
ATOM 862	3HG2	THR A	62	160.951	-0.050	-0.096	1.00	0.00
ATOM 863	N	ASP A	63	159.753	-1.402	4.462	1.00	0.00
ATOM 864	CA	ASP A	63	159.167	-1.198	5.781	1.00	0.00
ATOM 865	C	ASP A	63	158.493	0.167	5.873	1.00	0.00
ATOM 866	O	ASP A	63	158.496	0.803	6.927	1.00	0.00
ATOM 867	CB	ASP A	63	160.241	-1.323	6.864	1.00	0.00
ATOM 868	CG	ASP A	63	161.339	-0.290	6.711	1.00	0.00
ATOM 869	OD1	ASP A	63	162.512	-0.688	6.554	1.00	0.00
ATOM 870	OD2	ASP A	63	161.027	0.919	6.749	1.00	0.00
ATOM 871	H	ASP A	63	160.558	-0.900	4.213	1.00	0.00
ATOM 872	HA	ASP A	63	158.423	-1.965	5.936	1.00	0.00
ATOM 873	1HB	ASP A	63	159.783	-1.193	7.834	1.00	0.00
ATOM 874	2HB	ASP A	63	160.685	-2.306	6.809	1.00	0.00
ATOM 875	N	GLY A	64	157.917	0.612	4.760	1.00	0.00
ATOM 876	CA	GLY A	64	157.247	1.899	4.736	1.00	0.00
ATOM 877	C	GLY A	64	158.022	2.941	3.954	1.00	0.00
ATOM 878	O	GLY A	64	158.203	4.066	4.417	1.00	0.00
ATOM 879	H	GLY A	64	157.947	0.062	3.950	1.00	0.00
ATOM 880	1HA	GLY A	64	156.273	1.777	4.285	1.00	0.00
ATOM 881	2HA	GLY A	64	157.121	2.246	5.751	1.00	0.00
ATOM 882	N	THR A	65	158.480	2.565	2.764	1.00	0.00

ATOM 883	CA	THR A	65	159.241	3.474	1.916	1.00	0.00
ATOM 884	C	THR A	65	158.867	3.291	0.448	1.00	0.00
ATOM 885	O	THR A	65	158.792	2.167	-0.048	1.00	0.00
ATOM 886	CB	THR A	65	160.741	3.246	2.104	1.00	0.00
ATOM 887	OG1	THR A	65	161.030	1.862	2.200	1.00	0.00
ATOM 888	CG2	THR A	65	161.299	3.918	3.340	1.00	0.00
ATOM 889	H	THR A	65	158.303	1.654	2.450	1.00	0.00
ATOM 890	HA	THR A	65	159.000	4.484	2.213	1.00	0.00
ATOM 891	HB	THR A	65	161.266	3.643	1.247	1.00	0.00
ATOM 892	HG1	THR A	65	160.966	1.461	1.330	1.00	0.00
ATOM 893	1HG2	THR A	65	161.938	3.227	3.868	1.00	0.00
ATOM 894	2HG2	THR A	65	160.486	4.219	3.984	1.00	0.00
ATOM 895	3HG2	THR A	65	161.870	4.787	3.050	1.00	0.00
ATOM 896	N	PHE A	66	158.633	4.403	-0.240	1.00	0.00
ATOM 897	CA	PHE A	66	158.267	4.366	-1.653	1.00	0.00
ATOM 898	C	PHE A	66	159.287	5.119	-2.500	1.00	0.00
ATOM 899	O	PHE A	66	159.399	6.342	-2.414	1.00	0.00
ATOM 900	CB	PHE A	66	156.875	4.968	-1.856	1.00	0.00
ATOM 901	CG	PHE A	66	156.271	4.642	-3.191	1.00	0.00
ATOM 902	CD1	PHE A	66	155.997	3.330	-3.541	1.00	0.00
ATOM 903	CD2	PHE A	66	155.975	5.648	-4.097	1.00	0.00
ATOM 904	CE1	PHE A	66	155.440	3.026	-4.769	1.00	0.00
ATOM 905	CE2	PHE A	66	155.418	5.351	-5.327	1.00	0.00
ATOM 906	CZ	PHE A	66	155.151	4.039	-5.663	1.00	0.00
ATOM 907	H	PHE A	66	158.709	5.270	0.210	1.00	0.00
ATOM 908	HA	PHE A	66	158.251	3.332	-1.963	1.00	0.00
ATOM 909	1HB	PHE A	66	156.212	4.592	-1.091	1.00	0.00
ATOM 910	2HB	PHE A	66	156.941	6.043	-1.772	1.00	0.00
ATOM 911	HD1	PHE A	66	156.222	2.537	-2.842	1.00	0.00

ATOM 912	HD2	PHE	A	66	156.184	6.675	-3.835	1.00	0.00
ATOM 913	HE1	PHE	A	66	155.233	1.999	-5.030	1.00	0.00
ATOM 914	HE2	PHE	A	66	155.193	6.145	-6.024	1.00	0.00
ATOM 915	HZ	PHE	A	66	154.716	3.805	-6.623	1.00	0.00
ATOM 916	N	ARG	A	67	160.032	4.379	-3.316	1.00	0.00
ATOM 917	CA	ARG	A	67	161.043	4.978	-4.179	1.00	0.00
ATOM 918	C	ARG	A	67	162.102	5.702	-3.354	1.00	0.00
ATOM 919	O	ARG	A	67	162.609	6.749	-3.756	1.00	0.00
ATOM 920	CB	ARG	A	67	160.393	5.952	-5.163	1.00	0.00
ATOM 921	CG	ARG	A	67	159.132	5.407	-5.815	1.00	0.00
ATOM 922	CD	ARG	A	67	158.486	6.437	-6.728	1.00	0.00
ATOM 923	NE	ARG	A	67	158.779	6.181	-8.135	1.00	0.00
ATOM 924	CZ	ARG	A	67	158.174	5.243	-8.860	1.00	0.00
ATOM 925	NH1	ARG	A	67	157.244	4.470	-8.314	1.00	0.00
ATOM 926	NH2	ARG	A	67	158.498	5.078	-10.136	1.00	0.00
ATOM 927	H	ARG	A	67	159.898	3.410	-3.339	1.00	0.00
ATOM 928	HA	ARG	A	67	161.519	4.183	-4.733	1.00	0.00
ATOM 929	1HB	ARG	A	67	160.137	6.861	-4.637	1.00	0.00
ATOM 930	2HB	ARG	A	67	161.103	6.186	-5.943	1.00	0.00
ATOM 931	1HG	ARG	A	67	159.388	4.535	-6.398	1.00	0.00
ATOM 932	2HG	ARG	A	67	158.429	5.133	-5.042	1.00	0.00
ATOM 933	1HD	ARG	A	67	157.417	6.408	-6.581	1.00	0.00
ATOM 934	2HD	ARG	A	67	158.858	7.417	-6.464	1.00	0.00
ATOM 935	HE	ARG	A	67	159.463	6.738	-8.565	1.00	0.00
ATOM 936	1HH1	ARG	A	67	156.994	4.589	-7.353	1.00	0.00
ATOM 937	2HH1	ARG	A	67	156.792	3.767	-8.863	1.00	0.00
ATOM 938	1HH2	ARG	A	67	159.198	5.658	-10.552	1.00	0.00
ATOM 939	2HH2	ARG	A	67	158.043	4.373	-10.680	1.00	0.00
ATOM 940	N	GLY	A	68	162.431	5.138	-2.196	1.00	0.00

ATOM 941	CA	GLY A	68	163.427	5.744	-1.332	1.00	0.00
ATOM 942	C	GLY A	68	162.901	6.969	-0.610	1.00	0.00
ATOM 943	O	GLY A	68	163.664	7.874	-0.273	1.00	0.00
ATOM 944	H	GLY A	68	161.993	4.304	-1.926	1.00	0.00
ATOM 945	1HA	GLY A	68	163.742	5.015	-0.600	1.00	0.00
ATOM 946	2HA	GLY A	68	164.279	6.031	-1.930	1.00	0.00
ATOM 947	N	THR A	69	161.594	6.997	-0.372	1.00	0.00
ATOM 948	CA	THR A	69	160.967	8.120	0.314	1.00	0.00
ATOM 949	C	THR A	69	160.042	7.631	1.425	1.00	0.00
ATOM 950	O	THR A	69	158.874	7.326	1.184	1.00	0.00
ATOM 951	CB	THR A	69	160.181	8.977	-0.679	1.00	0.00
ATOM 952	OG1	THR A	69	160.884	9.098	-1.903	1.00	0.00
ATOM 953	CG2	THR A	69	159.900	10.375	-0.172	1.00	0.00
ATOM 954	H	THR A	69	161.038	6.245	-0.665	1.00	0.00
ATOM 955	HA	THR A	69	161.750	8.720	0.753	1.00	0.00
ATOM 956	HB	THR A	69	159.232	8.501	-0.878	1.00	0.00
ATOM 957	HG1	THR A	69	160.321	9.520	-2.555	1.00	0.00
ATOM 958	1HG2	THR A	69	160.475	11.088	-0.744	1.00	0.00
ATOM 959	2HG2	THR A	69	160.176	10.443	0.870	1.00	0.00
ATOM 960	3HG2	THR A	69	158.847	10.592	-0.280	1.00	0.00
ATOM 961	N	ARG A	70	160.572	7.560	2.642	1.00	0.00
ATOM 962	CA	ARG A	70	159.794	7.109	3.789	1.00	0.00
ATOM 963	C	ARG A	70	158.637	8.062	4.070	1.00	0.00
ATOM 964	O	ARG A	70	158.834	9.269	4.210	1.00	0.00
ATOM 965	CB	ARG A	70	160.687	6.996	5.025	1.00	0.00
ATOM 966	CG	ARG A	70	160.042	6.239	6.174	1.00	0.00
ATOM 967	CD	ARG A	70	160.682	6.596	7.506	1.00	0.00
ATOM 968	NE	ARG A	70	162.111	6.294	7.526	1.00	0.00
ATOM 969	CZ	ARG A	70	162.828	6.174	8.641	1.00	0.00

ATOM 970	NH1	ARG A	70	162.255	6.332	9.827	1.00	0.00
ATOM 971	NH2	ARG A	70	164.123	5.897	8.569	1.00	0.00
ATOM 972	H	ARG A	70	161.509	7.818	2.771	1.00	0.00
ATOM 973	HA	ARG A	70	159.392	6.135	3.555	1.00	0.00
ATOM 974	1HB	ARG A	70	161.598	6.484	4.751	1.00	0.00
ATOM 975	2HB	ARG A	70	160.933	7.989	5.370	1.00	0.00
ATOM 976	1HG	ARG A	70	158.992	6.487	6.213	1.00	0.00
ATOM 977	2HG	ARG A	70	160.158	5.178	6.003	1.00	0.00
ATOM 978	1HD	ARG A	70	160.546	7.653	7.683	1.00	0.00
ATOM 979	2HD	ARG A	70	160.193	6.036	8.288	1.00	0.00
ATOM 980	HE	ARG A	70	162.560	6.173	6.664	1.00	0.00
ATOM 981	1HH1	ARG A	70	161.278	6.542	9.889	1.00	0.00
ATOM 982	2HH1	ARG A	70	162.798	6.241	10.661	1.00	0.00
ATOM 983	1HH2	ARG A	70	164.560	5.778	7.678	1.00	0.00
ATOM 984	2HH2	ARG A	70	164.662	5.808	9.407	1.00	0.00
ATOM 985	N	TYR A	71	157.430	7.513	4.150	1.00	0.00
ATOM 986	CA	TYR A	71	156.240	8.315	4.414	1.00	0.00
ATOM 987	C	TYR A	71	155.660	7.993	5.787	1.00	0.00
ATOM 988	O	TYR A	71	155.224	8.886	6.513	1.00	0.00
ATOM 989	CB	TYR A	71	155.186	8.072	3.332	1.00	0.00
ATOM 990	CG	TYR A	71	155.555	8.651	1.985	1.00	0.00
ATOM 991	CD1	TYR A	71	156.007	9.960	1.871	1.00	0.00
ATOM 992	CD2	TYR A	71	155.453	7.889	0.828	1.00	0.00
ATOM 993	CE1	TYR A	71	156.346	10.493	0.642	1.00	0.00
ATOM 994	CE2	TYR A	71	155.791	8.415	-0.405	1.00	0.00
ATOM 995	CZ	TYR A	71	156.235	9.717	-0.493	1.00	0.00
ATOM 996	OH	TYR A	71	156.572	10.245	-1.718	1.00	0.00
ATOM 997	H	TYR A	71	157.335	6.544	4.029	1.00	0.00
ATOM 998	HA	TYR A	71	156.530	9.355	4.394	1.00	0.00

ATOM 999	1HB	TYR A	71	155.047	7.008	3.208	1.00	0.00
ATOM 1000	2HB	TYR A	71	154.253	8.519	3.642	1.00	0.00
ATOM 1001	HD1	TYR A	71	156.092	10.566	2.762	1.00	0.00
ATOM 1002	HD2	TYR A	71	155.104	6.870	0.900	1.00	0.00
ATOM 1003	HE1	TYR A	71	156.694	11.513	0.573	1.00	0.00
ATOM 1004	HE2	TYR A	71	155.704	7.806	-1.293	1.00	0.00
ATOM 1005	HH	TYR A	71	157.133	9.625	-2.190	1.00	0.00
ATOM 1006	N	PHE A	72	155.657	6.711	6.136	1.00	0.00
ATOM 1007	CA	PHE A	72	155.130	6.271	7.423	1.00	0.00
ATOM 1008	C	PHE A	72	156.016	5.188	8.030	1.00	0.00
ATOM 1009	O	PHE A	72	156.906	4.655	7.369	1.00	0.00
ATOM 1010	CB	PHE A	72	153.703	5.747	7.261	1.00	0.00
ATOM 1011	CG	PHE A	72	153.559	4.720	6.175	1.00	0.00
ATOM 1012	CD1	PHE A	72	153.366	5.106	4.858	1.00	0.00
ATOM 1013	CD2	PHE A	72	153.619	3.367	6.470	1.00	0.00
ATOM 1014	CE1	PHE A	72	153.233	4.163	3.857	1.00	0.00
ATOM 1015	CE2	PHE A	72	153.489	2.419	5.474	1.00	0.00
ATOM 1016	CZ	PHE A	72	153.295	2.818	4.165	1.00	0.00
ATOM 1017	H	PHE A	72	156.018	6.045	5.515	1.00	0.00
ATOM 1018	HA	PHE A	72	155.119	7.124	8.086	1.00	0.00
ATOM 1019	1HB	PHE A	72	153.384	5.295	8.189	1.00	0.00
ATOM 1020	2HB	PHE A	72	153.048	6.574	7.026	1.00	0.00
ATOM 1021	HD1	PHE A	72	153.317	6.158	4.616	1.00	0.00
ATOM 1022	HD2	PHE A	72	153.772	3.055	7.493	1.00	0.00
ATOM 1023	HE1	PHE A	72	153.081	4.477	2.835	1.00	0.00
ATOM 1024	HE2	PHE A	72	153.537	1.368	5.718	1.00	0.00
ATOM 1025	HZ	PHE A	72	153.192	2.079	3.384	1.00	0.00
ATOM 1026	N	THR A	73	155.765	4.867	9.297	1.00	0.00
ATOM 1027	CA	THR A	73	156.539	3.847	9.993	1.00	0.00

ATOM 1028	C	THR A	73	155.724	2.569	10.166	1.00	0.00
ATOM 1029	O	THR A	73	154.725	2.549	10.884	1.00	0.00
ATOM 1030	CB	THR A	73	156.992	4.366	11.359	1.00	0.00
ATOM 1031	OG1	THR A	73	157.826	3.420	12.004	1.00	0.00
ATOM 1032	CG2	THR A	73	155.842	4.675	12.294	1.00	0.00
ATOM 1033	H	THR A	73	155.041	5.326	9.772	1.00	0.00
ATOM 1034	HA	THR A	73	157.411	3.626	9.396	1.00	0.00
ATOM 1035	HB	THR A	73	157.557	5.276	11.217	1.00	0.00
ATOM 1036	HG1	THR A	73	157.355	2.588	12.098	1.00	0.00
ATOM 1037	1HG2	THR A	73	155.091	5.244	11.765	1.00	0.00
ATOM 1038	2HG2	THR A	73	156.205	5.252	13.132	1.00	0.00
ATOM 1039	3HG2	THR A	73	155.410	3.753	12.652	1.00	0.00
ATOM 1040	N	CYS A	74	156.160	1.502	9.503	1.00	0.00
ATOM 1041	CA	CYS A	74	155.471	0.220	9.582	1.00	0.00
ATOM 1042	C	CYS A	74	156.459	-0.914	9.839	1.00	0.00
ATOM 1043	O	CYS A	74	157.656	-0.682	10.009	1.00	0.00
ATOM 1044	CB	CYS A	74	154.696	-0.048	8.291	1.00	0.00
ATOM 1045	SG	CYS A	74	153.000	0.580	8.306	1.00	0.00
ATOM 1046	H	CYS A	74	156.963	1.579	8.947	1.00	0.00
ATOM 1047	HA	CYS A	74	154.775	0.267	10.407	1.00	0.00
ATOM 1048	1HB	CYS A	74	155.211	0.421	7.467	1.00	0.00
ATOM 1049	2HB	CYS A	74	154.651	-1.114	8.121	1.00	0.00
ATOM 1050	HG	CYS A	74	152.701	0.649	7.397	1.00	0.00
ATOM 1051	N	ALA A	75	155.949	-2.142	9.866	1.00	0.00
ATOM 1052	CA	ALA A	75	156.786	-3.312	10.102	1.00	0.00
ATOM 1053	C	ALA A	75	157.751	-3.540	8.943	1.00	0.00
ATOM 1054	O	ALA A	75	157.777	-2.770	7.983	1.00	0.00
ATOM 1055	CB	ALA A	75	155.921	-4.543	10.320	1.00	0.00
ATOM 1056	H	ALA A	75	154.987	-2.262	9.724	1.00	0.00

ATOM 1057	HA	ALA A	75	157.356	-3.137	11.003	1.00	0.00
ATOM 1058	1HB	ALA A	75	156.535	-5.430	10.263	1.00	0.00
ATOM 1059	2HB	ALA A	75	155.156	-4.585	9.559	1.00	0.00
ATOM 1060	3HB	ALA A	75	155.457	-4.489	11.294	1.00	0.00
ATOM 1061	N	LEU A	76	158.542	-4.603	9.039	1.00	0.00
ATOM 1062	CA	LEU A	76	159.509	-4.934	7.999	1.00	0.00
ATOM 1063	C	LEU A	76	158.917	-5.923	7.001	1.00	0.00
ATOM 1064	O	LEU A	76	158.274	-6.899	7.387	1.00	0.00
ATOM 1065	CB	LEU A	76	160.779	-5.517	8.620	1.00	0.00
ATOM 1066	CG	LEU A	76	161.763	-4.484	9.173	1.00	0.00
ATOM 1067	CD1	LEU A	76	162.495	-5.038	10.385	1.00	0.00
ATOM 1068	CD2	LEU A	76	162.752	-4.063	8.097	1.00	0.00
ATOM 1069	H	LEU A	76	158.474	-5.180	9.829	1.00	0.00
ATOM 1070	HA	LEU A	76	159.759	-4.022	7.478	1.00	0.00
ATOM 1071	1HB	LEU A	76	160.490	-6.176	9.426	1.00	0.00
ATOM 1072	2HB	LEU A	76	161.289	-6.098	7.867	1.00	0.00
ATOM 1073	HG	LEU A	76	161.215	-3.607	9.487	1.00	0.00
ATOM 1074	1HD1	LEU A	76	161.972	-4.750	11.285	1.00	0.00
ATOM 1075	2HD1	LEU A	76	163.500	-4.644	10.410	1.00	0.00
ATOM 1076	3HD1	LEU A	76	162.533	-6.115	10.320	1.00	0.00
ATOM 1077	1HD2	LEU A	76	163.670	-3.735	8.561	1.00	0.00
ATOM 1078	2HD2	LEU A	76	162.332	-3.253	7.518	1.00	0.00
ATOM 1079	3HD2	LEU A	76	162.957	-4.902	7.447	1.00	0.00
ATOM 1080	N	LYS A	77	159.139	-5.665	5.715	1.00	0.00
ATOM 1081	CA	LYS A	77	158.628	-6.533	4.662	1.00	0.00
ATOM 1082	C	LYS A	77	157.104	-6.595	4.699	1.00	0.00
ATOM 1083	O	LYS A	77	156.509	-7.649	4.473	1.00	0.00
ATOM 1084	CB	LYS A	77	159.211	-7.940	4.804	1.00	0.00
ATOM 1085	CG	LYS A	77	160.726	-7.987	4.684	1.00	0.00

ATOM 1086	CD	LYS A	77	161.166	-8.174	3.241	1.00	0.00
ATOM 1087	CE	LYS A	77	162.624	-7.792	3.048	1.00	0.00
ATOM 1088	NZ	LYS A	77	163.308	-8.683	2.071	1.00	0.00
ATOM 1089	H	LYS A	77	159.659	-4.871	5.470	1.00	0.00
ATOM 1090	HA	LYS A	77	158.935	-6.120	3.713	1.00	0.00
ATOM 1091	1HB	LYS A	77	158.936	-8.336	5.770	1.00	0.00
ATOM 1092	2HB	LYS A	77	158.791	-8.571	4.035	1.00	0.00
ATOM 1093	1HG	LYS A	77	161.135	-7.059	5.056	1.00	0.00
ATOM 1094	2HG	LYS A	77	161.099	-8.810	5.275	1.00	0.00
ATOM 1095	1HD	LYS A	77	161.037	-9.211	2.968	1.00	0.00
ATOM 1096	2HD	LYS A	77	160.553	-7.553	2.604	1.00	0.00
ATOM 1097	1HE	LYS A	77	162.671	-6.775	2.689	1.00	0.00
ATOM 1098	2HE	LYS A	77	163.129	-7.860	4.001	1.00	0.00
ATOM 1099	1HZ	LYS A	77	163.812	-9.443	2.572	1.00	0.00
ATOM 1100	2HZ	LYS A	77	163.994	-8.140	1.510	1.00	0.00
ATOM 1101	3HZ	LYS A	77	162.612	-9.110	1.427	1.00	0.00
ATOM 1102	N	LYS A	78	156.477	-5.460	4.988	1.00	0.00
ATOM 1103	CA	LYS A	78	155.023	-5.384	5.056	1.00	0.00
ATOM 1104	C	LYS A	78	154.526	-4.015	4.601	1.00	0.00
ATOM 1105	O	LYS A	78	153.613	-3.445	5.197	1.00	0.00
ATOM 1106	CB	LYS A	78	154.543	-5.667	6.481	1.00	0.00
ATOM 1107	CG	LYS A	78	154.990	-7.018	7.016	1.00	0.00
ATOM 1108	CD	LYS A	78	154.535	-7.227	8.451	1.00	0.00
ATOM 1109	CE	LYS A	78	153.296	-8.107	8.521	1.00	0.00
ATOM 1110	NZ	LYS A	78	152.334	-7.632	9.553	1.00	0.00
ATOM 1111	H	LYS A	78	157.006	-4.653	5.159	1.00	0.00
ATOM 1112	HA	LYS A	78	154.621	-6.137	4.394	1.00	0.00
ATOM 1113	1HB	LYS A	78	154.926	-4.899	7.137	1.00	0.00
ATOM 1114	2HB	LYS A	78	153.464	-5.636	6.497	1.00	0.00

ATOM 1115	1HG	LYS A	78	154.568	-7.797	6.398	1.00	0.00
ATOM 1116	2HG	LYS A	78	156.067	-7.070	6.977	1.00	0.00
ATOM 1117	1HD	LYS A	78	155.331	-7.699	9.006	1.00	0.00
ATOM 1118	2HD	LYS A	78	154.307	-6.266	8.890	1.00	0.00
ATOM 1119	1HE	LYS A	78	152.810	-8.100	7.557	1.00	0.00
ATOM 1120	2HE	LYS A	78	153.601	-9.116	8.763	1.00	0.00
ATOM 1121	1HZ	LYS A	78	151.426	-8.129	9.451	1.00	0.00
ATOM 1122	2HZ	LYS A	78	152.170	-6.610	9.446	1.00	0.00
ATOM 1123	3HZ	LYS A	78	152.712	-7.813	10.505	1.00	0.00
ATOM 1124	N	ALA A	79	155.135	-3.493	3.540	1.00	0.00
ATOM 1125	CA	ALA A	79	154.756	-2.191	3.006	1.00	0.00
ATOM 1126	C	ALA A	79	154.589	-2.246	1.491	1.00	0.00
ATOM 1127	O	ALA A	79	155.567	-2.379	0.754	1.00	0.00
ATOM 1128	CB	ALA A	79	155.789	-1.143	3.387	1.00	0.00
ATOM 1129	H	ALA A	79	155.856	-3.996	3.108	1.00	0.00
ATOM 1130	HA	ALA A	79	153.812	-1.910	3.451	1.00	0.00
ATOM 1131	1HB	ALA A	79	156.035	-1.243	4.434	1.00	0.00
ATOM 1132	2HB	ALA A	79	155.387	-0.157	3.204	1.00	0.00
ATOM 1133	3HB	ALA A	79	156.681	-1.284	2.793	1.00	0.00
ATOM 1134	N	LEU A	80	153.346	-2.143	1.033	1.00	0.00
ATOM 1135	CA	LEU A	80	153.051	-2.181	-0.394	1.00	0.00
ATOM 1136	C	LEU A	80	152.282	-0.935	-0.825	1.00	0.00
ATOM 1137	O	LEU A	80	151.202	-0.652	-0.307	1.00	0.00
ATOM 1138	CB	LEU A	80	152.245	-3.435	-0.737	1.00	0.00
ATOM 1139	CG	LEU A	80	151.821	-3.553	-2.202	1.00	0.00
ATOM 1140	CD1	LEU A	80	153.012	-3.915	-3.075	1.00	0.00
ATOM 1141	CD2	LEU A	80	150.714	-4.585	-2.354	1.00	0.00
ATOM 1142	H	LEU A	80	152.609	-2.038	1.670	1.00	0.00
ATOM 1143	HA	LEU A	80	153.990	-2.211	-0.927	1.00	0.00

ATOM 1144	1HB	LEU A	80	152.842	-4.301	-0.485	1.00	0.00
ATOM 1145	2HB	LEU A	80	151.355	-3.444	-0.127	1.00	0.00
ATOM 1146	HG	LEU A	80	151.439	-2.599	-2.536	1.00	0.00
ATOM 1147	1HD1	LEU A	80	153.565	-3.020	-3.319	1.00	0.00
ATOM 1148	2HD1	LEU A	80	152.664	-4.382	-3.984	1.00	0.00
ATOM 1149	3HD1	LEU A	80	153.654	-4.600	-2.542	1.00	0.00
ATOM 1150	1HD2	LEU A	80	149.996	-4.463	-1.556	1.00	0.00
ATOM 1151	2HD2	LEU A	80	151.137	-5.578	-2.307	1.00	0.00
ATOM 1152	3HD2	LEU A	80	150.221	-4.447	-3.305	1.00	0.00
ATOM 1153	N	PHE A	81	152.846	-0.195	-1.772	1.00	0.00
ATOM 1154	CA	PHE A	81	152.214	1.019	-2.272	1.00	0.00
ATOM 1155	C	PHE A	81	151.401	0.732	-3.530	1.00	0.00
ATOM 1156	O	PHE A	81	151.843	-0.005	-4.411	1.00	0.00
ATOM 1157	CB	PHE A	81	153.272	2.086	-2.565	1.00	0.00
ATOM 1158	CG	PHE A	81	153.894	2.672	-1.330	1.00	0.00
ATOM 1159	CD1	PHE A	81	154.971	2.051	-0.719	1.00	0.00
ATOM 1160	CD2	PHE A	81	153.400	3.844	-0.780	1.00	0.00
ATOM 1161	CE1	PHE A	81	155.545	2.588	0.417	1.00	0.00
ATOM 1162	CE2	PHE A	81	153.970	4.386	0.357	1.00	0.00
ATOM 1163	CZ	PHE A	81	155.044	3.756	0.957	1.00	0.00
ATOM 1164	H	PHE A	81	153.710	-0.473	-2.146	1.00	0.00
ATOM 1165	HA	PHE A	81	151.550	1.387	-1.504	1.00	0.00
ATOM 1166	1HB	PHE A	81	154.061	1.647	-3.157	1.00	0.00
ATOM 1167	2HB	PHE A	81	152.815	2.891	-3.124	1.00	0.00
ATOM 1168	HD1	PHE A	81	155.364	1.137	-1.140	1.00	0.00
ATOM 1169	HD2	PHE A	81	152.560	4.337	-1.247	1.00	0.00
ATOM 1170	HE1	PHE A	81	156.384	2.094	0.884	1.00	0.00
ATOM 1171	HE2	PHE A	81	153.576	5.300	0.776	1.00	0.00
ATOM 1172	HZ	PHE A	81	155.490	4.178	1.845	1.00	0.00

ATOM 1173	N	VAL A	82	150.212	1.320	-3.606	1.00	0.00
ATOM 1174	CA	VAL A	82	149.338	1.127	-4.758	1.00	0.00
ATOM 1175	C	VAL A	82	148.527	2.385	-5.048	1.00	0.00
ATOM 1176	O	VAL A	82	148.443	3.288	-4.216	1.00	0.00
ATOM 1177	CB	VAL A	82	148.372	-0.053	-4.539	1.00	0.00
ATOM 1178	CG1	VAL A	82	149.117	-1.376	-4.623	1.00	0.00
ATOM 1179	CG2	VAL A	82	147.657	0.082	-3.202	1.00	0.00
ATOM 1180	H	VAL A	82	149.915	1.897	-2.873	1.00	0.00
ATOM 1181	HA	VAL A	82	149.957	0.905	-5.613	1.00	0.00
ATOM 1182	HB	VAL A	82	147.629	-0.034	-5.323	1.00	0.00
ATOM 1183	1HG1	VAL A	82	149.441	-1.670	-3.635	1.00	0.00
ATOM 1184	2HG1	VAL A	82	149.978	-1.265	-5.266	1.00	0.00
ATOM 1185	3HG1	VAL A	82	148.462	-2.133	-5.027	1.00	0.00
ATOM 1186	1HG2	VAL A	82	146.755	-0.511	-3.216	1.00	0.00
ATOM 1187	2HG2	VAL A	82	147.405	1.118	-3.032	1.00	0.00
ATOM 1188	3HG2	VAL A	82	148.306	-0.266	-2.412	1.00	0.00
ATOM 1189	N	LYS A	83	147.929	2.438	-6.234	1.00	0.00
ATOM 1190	CA	LYS A	83	147.125	3.585	-6.636	1.00	0.00
ATOM 1191	C	LYS A	83	145.818	3.634	-5.853	1.00	0.00
ATOM 1192	O	LYS A	83	145.041	2.678	-5.859	1.00	0.00
ATOM 1193	CB	LYS A	83	146.833	3.530	-8.136	1.00	0.00
ATOM 1194	CG	LYS A	83	148.083	3.515	-8.999	1.00	0.00
ATOM 1195	CD	LYS A	83	147.742	3.365	-10.472	1.00	0.00
ATOM 1196	CE	LYS A	83	148.891	3.816	-11.360	1.00	0.00
ATOM 1197	NZ	LYS A	83	149.817	2.695	-11.683	1.00	0.00
ATOM 1198	H	LYS A	83	148.033	1.685	-6.855	1.00	0.00
ATOM 1199	HA	LYS A	83	147.690	4.479	-6.420	1.00	0.00
ATOM 1200	1HB	LYS A	83	146.265	2.635	-8.347	1.00	0.00
ATOM 1201	2HB	LYS A	83	146.243	4.391	-8.408	1.00	0.00

ATOM 1202	1HG	LYS A	83	148.618	4.443	-8.858	1.00	0.00
ATOM 1203	2HG	LYS A	83	148.709	2.688	-8.697	1.00	0.00
ATOM 1204	1HD	LYS A	83	147.527	2.327	-10.679	1.00	0.00
ATOM 1205	2HD	LYS A	83	146.871	3.965	-10.694	1.00	0.00
ATOM 1206	1HE	LYS A	83	148.485	4.212	-12.279	1.00	0.00
ATOM 1207	2HE	LYS A	83	149.442	4.590	-10.847	1.00	0.00
ATOM 1208	1HZ	LYS A	83	150.305	2.375	-10.823	1.00	0.00
ATOM 1209	2HZ	LYS A	83	150.527	3.006	-12.376	1.00	0.00
ATOM 1210	3HZ	LYS A	83	149.284	1.897	-12.084	1.00	0.00
ATOM 1211	N	LEU A	84	145.581	4.755	-5.181	1.00	0.00
ATOM 1212	CA	LEU A	84	144.368	4.936	-4.393	1.00	0.00
ATOM 1213	C	LEU A	84	143.126	4.784	-5.264	1.00	0.00
ATOM 1214	O	LEU A	84	142.118	4.224	-4.833	1.00	0.00
ATOM 1215	CB	LEU A	84	144.376	6.313	-3.725	1.00	0.00
ATOM 1216	CG	LEU A	84	143.102	6.670	-2.958	1.00	0.00
ATOM 1217	CD1	LEU A	84	143.017	5.873	-1.666	1.00	0.00
ATOM 1218	CD2	LEU A	84	143.056	8.163	-2.669	1.00	0.00
ATOM 1219	H	LEU A	84	146.239	5.480	-5.218	1.00	0.00
ATOM 1220	HA	LEU A	84	144.353	4.174	-3.629	1.00	0.00
ATOM 1221	1HB	LEU A	84	145.209	6.351	-3.039	1.00	0.00
ATOM 1222	2HB	LEU A	84	144.530	7.059	-4.491	1.00	0.00
ATOM 1223	HG	LEU A	84	142.243	6.419	-3.562	1.00	0.00
ATOM 1224	1HD1	LEU A	84	142.508	6.458	-0.914	1.00	0.00
ATOM 1225	2HD1	LEU A	84	144.013	5.635	-1.323	1.00	0.00
ATOM 1226	3HD1	LEU A	84	142.469	4.959	-1.843	1.00	0.00
ATOM 1227	1HD2	LEU A	84	143.998	8.476	-2.244	1.00	0.00
ATOM 1228	2HD2	LEU A	84	142.259	8.370	-1.970	1.00	0.00
ATOM 1229	3HD2	LEU A	84	142.879	8.703	-3.588	1.00	0.00
ATOM 1230	N	LYS A	85	143.207	5.285	-6.492	1.00	0.00

ATOM 1231	CA	LYS A	85	142.089	5.204	-7.426	1.00	0.00
ATOM 1232	C	LYS A	85	141.772	3.752	-7.773	1.00	0.00
ATOM 1233	O	LYS A	85	140.646	3.427	-8.146	1.00	0.00
ATOM 1234	CB	LYS A	85	142.404	5.988	-8.701	1.00	0.00
ATOM 1235	CG	LYS A	85	143.788	5.703	-9.264	1.00	0.00
ATOM 1236	CD	LYS A	85	144.711	6.903	-9.121	1.00	0.00
ATOM 1237	CE	LYS A	85	145.607	7.066	-10.338	1.00	0.00
ATOM 1238	NZ	LYS A	85	144.828	7.053	-11.607	1.00	0.00
ATOM 1239	H	LYS A	85	144.037	5.719	-6.778	1.00	0.00
ATOM 1240	HA	LYS A	85	141.226	5.644	-6.948	1.00	0.00
ATOM 1241	1HB	LYS A	85	141.674	5.736	-9.454	1.00	0.00
ATOM 1242	2HB	LYS A	85	142.337	7.044	-8.486	1.00	0.00
ATOM 1243	1HG	LYS A	85	144.217	4.867	-8.732	1.00	0.00
ATOM 1244	2HG	LYS A	85	143.694	5.455	-10.312	1.00	0.00
ATOM 1245	1HD	LYS A	85	144.111	7.794	-9.006	1.00	0.00
ATOM 1246	2HD	LYS A	85	145.328	6.767	-8.245	1.00	0.00
ATOM 1247	1HE	LYS A	85	146.132	8.006	-10.259	1.00	0.00
ATOM 1248	2HE	LYS A	85	146.320	6.255	-10.355	1.00	0.00
ATOM 1249	1HZ	LYS A	85	144.768	6.084	-11.980	1.00	0.00
ATOM 1250	2HZ	LYS A	85	145.288	7.658	-12.316	1.00	0.00
ATOM 1251	3HZ	LYS A	85	143.865	7.408	-11.439	1.00	0.00
ATOM 1252	N	SER A	86	142.772	2.885	-7.647	1.00	0.00
ATOM 1253	CA	SER A	86	142.596	1.468	-7.949	1.00	0.00
ATOM 1254	C	SER A	86	142.484	0.649	-6.668	1.00	0.00
ATOM 1255	O	SER A	86	142.895	-0.511	-6.624	1.00	0.00
ATOM 1256	CB	SER A	86	143.763	0.957	-8.795	1.00	0.00
ATOM 1257	OG	SER A	86	144.179	1.934	-9.734	1.00	0.00
ATOM 1258	H	SER A	86	143.648	3.203	-7.345	1.00	0.00
ATOM 1259	HA	SER A	86	141.681	1.362	-8.512	1.00	0.00

ATOM 1260	1HB	SER A	86	144.595	0.719	-8.151	1.00	0.00
ATOM 1261	2HB	SER A	86	143.456	0.069	-9.329	1.00	0.00
ATOM 1262	HG	SER A	86	144.469	2.723	-9.270	1.00	0.00
ATOM 1263	N	CYS A	87	141.926	1.258	-5.627	1.00	0.00
ATOM 1264	CA	CYS A	87	141.760	0.585	-4.346	1.00	0.00
ATOM 1265	C	CYS A	87	140.295	0.232	-4.103	1.00	0.00
ATOM 1266	O	CYS A	87	139.395	0.870	-4.648	1.00	0.00
ATOM 1267	CB	CYS A	87	142.277	1.469	-3.209	1.00	0.00
ATOM 1268	SG	CYS A	87	144.080	1.553	-3.104	1.00	0.00
ATOM 1269	H	CYS A	87	141.619	2.184	-5.725	1.00	0.00
ATOM 1270	HA	CYS A	87	142.338	-0.327	-4.372	1.00	0.00
ATOM 1271	1HB	CYS A	87	141.911	2.474	-3.350	1.00	0.00
ATOM 1272	2HB	CYS A	87	141.909	1.085	-2.269	1.00	0.00
ATOM 1273	HG	CYS A	87	144.430	0.680	-3.295	1.00	0.00
ATOM 1274	N	ARG A	88	140.066	-0.789	-3.284	1.00	0.00
ATOM 1275	CA	ARG A	88	138.710	-1.227	-2.971	1.00	0.00
ATOM 1276	C	ARG A	88	138.470	-1.220	-1.460	1.00	0.00
ATOM 1277	O	ARG A	88	139.274	-1.758	-0.698	1.00	0.00
ATOM 1278	CB	ARG A	88	138.463	-2.628	-3.535	1.00	0.00
ATOM 1279	CG	ARG A	88	137.305	-2.694	-4.518	1.00	0.00
ATOM 1280	CD	ARG A	88	136.151	-3.520	-3.972	1.00	0.00
ATOM 1281	NE	ARG A	88	135.512	-4.323	-5.012	1.00	0.00
ATOM 1282	CZ	ARG A	88	134.347	-4.946	-4.855	1.00	0.00
ATOM 1283	NH1	ARG A	88	133.690	-4.862	-3.705	1.00	0.00
ATOM 1284	NH2	ARG A	88	133.837	-5.656	-5.852	1.00	0.00
ATOM 1285	H	ARG A	88	140.824	-1.258	-2.880	1.00	0.00
ATOM 1286	HA	ARG A	88	138.025	-0.536	-3.438	1.00	0.00
ATOM 1287	1HB	ARG A	88	139.357	-2.960	-4.043	1.00	0.00
ATOM 1288	2HB	ARG A	88	138.253	-3.304	-2.718	1.00	0.00

ATOM 1289	1HG	ARG A	88	136.955	-1.690	-4.713	1.00	0.00
ATOM 1290	2HG	ARG A	88	137.652	-3.140	-5.439	1.00	0.00
ATOM 1291	1HD	ARG A	88	136.529	-4.178	-3.203	1.00	0.00
ATOM 1292	2HD	ARG A	88	135.418	-2.852	-3.544	1.00	0.00
ATOM 1293	HE	ARG A	88	135.977	-4.402	-5.871	1.00	0.00
ATOM 1294	1HH1	ARG A	88	134.068	-4.327	-2.949	1.00	0.00
ATOM 1295	2HH1	ARG A	88	132.814	-5.332	-3.594	1.00	0.00
ATOM 1296	1HH2	ARG A	88	134.327	-5.723	-6.721	1.00	0.00
ATOM 1297	2HH2	ARG A	88	132.961	-6.125	-5.735	1.00	0.00
ATOM 1298	N	PRO A	89	137.360	-0.611	-1.004	1.00	0.00
ATOM 1299	CA	PRO A	89	137.030	-0.544	0.424	1.00	0.00
ATOM 1300	C	PRO A	89	137.016	-1.921	1.079	1.00	0.00
ATOM 1301	O	PRO A	89	136.454	-2.872	0.536	1.00	0.00
ATOM 1302	CB	PRO A	89	135.626	0.067	0.440	1.00	0.00
ATOM 1303	CG	PRO A	89	135.525	0.825	-0.837	1.00	0.00
ATOM 1304	CD	PRO A	89	136.343	0.058	-1.837	1.00	0.00
ATOM 1305	HA	PRO A	89	137.713	0.100	0.957	1.00	0.00
ATOM 1306	1HB	PRO A	89	134.888	-0.720	0.493	1.00	0.00
ATOM 1307	2HB	PRO A	89	135.526	0.721	1.294	1.00	0.00
ATOM 1308	1HG	PRO A	89	134.494	0.874	-1.154	1.00	0.00
ATOM 1309	2HG	PRO A	89	135.926	1.819	-0.708	1.00	0.00
ATOM 1310	1HD	PRO A	89	135.729	-0.666	-2.353	1.00	0.00
ATOM 1311	2HD	PRO A	89	136.806	0.733	-2.543	1.00	0.00
ATOM 1312	N	ASP A	90	137.639	-2.020	2.248	1.00	0.00
ATOM 1313	CA	ASP A	90	137.699	-3.282	2.978	1.00	0.00
ATOM 1314	C	ASP A	90	136.690	-3.296	4.122	1.00	0.00
ATOM 1315	O	ASP A	90	136.787	-2.501	5.058	1.00	0.00
ATOM 1316	CB	ASP A	90	139.109	-3.515	3.522	1.00	0.00
ATOM 1317	CG	ASP A	90	139.388	-4.979	3.796	1.00	0.00

ATOM 1318	OD1	ASP A	90	140.186	-5.270	4.711	1.00	0.00
ATOM 1319	OD2	ASP A	90	138.808	-5.835	3.095	1.00	0.00
ATOM 1320	H	ASP A	90	138.068	-1.226	2.630	1.00	0.00
ATOM 1321	HA	ASP A	90	137.453	-4.075	2.288	1.00	0.00
ATOM 1322	1HB	ASP A	90	139.829	-3.158	2.802	1.00	0.00
ATOM 1323	2HB	ASP A	90	139.227	-2.965	4.444	1.00	0.00
ATOM 1324	N	SER A	91	135.722	-4.204	4.040	1.00	0.00
ATOM 1325	CA	SER A	91	134.695	-4.321	5.069	1.00	0.00
ATOM 1326	C	SER A	91	134.986	-5.499	5.995	1.00	0.00
ATOM 1327	O	SER A	91	134.070	-6.102	6.555	1.00	0.00
ATOM 1328	CB	SER A	91	133.319	-4.494	4.424	1.00	0.00
ATOM 1329	OG	SER A	91	132.300	-3.944	5.240	1.00	0.00
ATOM 1330	H	SER A	91	135.699	-4.809	3.270	1.00	0.00
ATOM 1331	HA	SER A	91	134.701	-3.410	5.650	1.00	0.00
ATOM 1332	1HB	SER A	91	133.306	-3.996	3.467	1.00	0.00
ATOM 1333	2HB	SER A	91	133.122	-5.547	4.284	1.00	0.00
ATOM 1334	HG	SER A	91	131.591	-4.584	5.341	1.00	0.00
ATOM 1335	N	ARG A	92	136.266	-5.822	6.150	1.00	0.00
ATOM 1336	CA	ARG A	92	136.676	-6.929	7.006	1.00	0.00
ATOM 1337	C	ARG A	92	136.335	-6.649	8.466	1.00	0.00
ATOM 1338	O	ARG A	92	136.092	-7.572	9.243	1.00	0.00
ATOM 1339	CB	ARG A	92	138.178	-7.181	6.862	1.00	0.00
ATOM 1340	CG	ARG A	92	138.528	-8.159	5.751	1.00	0.00
ATOM 1341	CD	ARG A	92	138.929	-9.516	6.308	1.00	0.00
ATOM 1342	NE	ARG A	92	137.861	-10.122	7.098	1.00	0.00
ATOM 1343	CZ	ARG A	92	138.051	-11.115	7.965	1.00	0.00
ATOM 1344	NH1	ARG A	92	139.265	-11.616	8.155	1.00	0.00
ATOM 1345	NH2	ARG A	92	137.024	-11.608	8.643	1.00	0.00
ATOM 1346	H	ARG A	92	136.950	-5.306	5.676	1.00	0.00

ATOM 1347	HA	ARG A	92	136.141	-7.811	6.686	1.00	0.00
ATOM 1348	1HB	ARG A	92	138.670	-6.242	6.653	1.00	0.00
ATOM 1349	2HB	ARG A	92	138.556	-7.576	7.793	1.00	0.00
ATOM 1350	1HG	ARG A	92	137.667	-8.285	5.111	1.00	0.00
ATOM 1351	2HG	ARG A	92	139.350	-7.758	5.177	1.00	0.00
ATOM 1352	1HD	ARG A	92	139.170	-10.172	5.484	1.00	0.00
ATOM 1353	2HD	ARG A	92	139.801	-9.391	6.933	1.00	0.00
ATOM 1354	HE	ARG A	92	136.953	-9.771	6.978	1.00	0.00
ATOM 1355	1HH1	ARG A	92	140.044	-11.248	7.647	1.00	0.00
ATOM 1356	2HH1	ARG A	92	139.401	-12.361	8.807	1.00	0.00
ATOM 1357	1HH2	ARG A	92	136.107	-11.235	8.503	1.00	0.00
ATOM 1358	2HH2	ARG A	92	137.166	-12.354	9.293	1.00	0.00
ATOM 1359	N	PHE A	93	136.321	-5.372	8.834	1.00	0.00
ATOM 1360	CA	PHE A	93	136.011	-4.976	10.204	1.00	0.00
ATOM 1361	C	PHE A	93	134.637	-4.319	10.290	1.00	0.00
ATOM 1362	O	PHE A	93	134.390	-3.488	11.164	1.00	0.00
ATOM 1363	CB	PHE A	93	137.080	-4.018	10.732	1.00	0.00
ATOM 1364	CG	PHE A	93	138.416	-4.670	10.948	1.00	0.00
ATOM 1365	CD1	PHE A	93	139.106	-5.235	9.888	1.00	0.00
ATOM 1366	CD2	PHE A	93	138.982	-4.718	12.213	1.00	0.00
ATOM 1367	CE1	PHE A	93	140.335	-5.836	10.084	1.00	0.00
ATOM 1368	CE2	PHE A	93	140.211	-5.316	12.415	1.00	0.00
ATOM 1369	CZ	PHE A	93	140.888	-5.877	11.348	1.00	0.00
ATOM 1370	H	PHE A	93	136.524	-4.680	8.171	1.00	0.00
ATOM 1371	HA	PHE A	93	136.009	-5.868	10.812	1.00	0.00
ATOM 1372	1HB	PHE A	93	137.215	-3.214	10.025	1.00	0.00
ATOM 1373	2HB	PHE A	93	136.751	-3.609	11.677	1.00	0.00
ATOM 1374	HD1	PHE A	93	138.673	-5.203	8.898	1.00	0.00
ATOM 1375	HD2	PHE A	93	138.453	-4.280	13.047	1.00	0.00

ATOM 1376	HE1	PHE A	93	140.861	-6.273	9.248	1.00	0.00
ATOM 1377	HE2	PHE A	93	140.641	-5.348	13.405	1.00	0.00
ATOM 1378	HZ	PHE A	93	141.848	-6.345	11.504	1.00	0.00
ATOM 1379	N	ALA A	94	133.742	-4.697	9.381	1.00	0.00
ATOM 1380	CA	ALA A	94	132.395	-4.141	9.363	1.00	0.00
ATOM 1381	C	ALA A	94	131.409	-5.069	10.064	1.00	0.00
ATOM 1382	O	ALA A	94	131.306	-6.249	9.730	1.00	0.00
ATOM 1383	CB	ALA A	94	131.951	-3.881	7.933	1.00	0.00
ATOM 1384	H	ALA A	94	133.994	-5.364	8.708	1.00	0.00
ATOM 1385	HA	ALA A	94	132.417	-3.196	9.885	1.00	0.00
ATOM 1386	1HB	ALA A	94	131.106	-3.209	7.934	1.00	0.00
ATOM 1387	2HB	ALA A	94	131.667	-4.815	7.469	1.00	0.00
ATOM 1388	3HB	ALA A	94	132.764	-3.437	7.379	1.00	0.00
ATOM 1389	N	SER A	95	130.685	-4.528	11.039	1.00	0.00
ATOM 1390	CA	SER A	95	129.707	-5.307	11.788	1.00	0.00
ATOM 1391	C	SER A	95	128.398	-5.422	11.015	1.00	0.00
ATOM 1392	O	SER A	95	127.808	-4.417	10.619	1.00	0.00
ATOM 1393	CB	SER A	95	129.451	-4.667	13.154	1.00	0.00
ATOM 1394	OG	SER A	95	130.650	-4.575	13.907	1.00	0.00
ATOM 1395	H	SER A	95	130.813	-3.581	11.260	1.00	0.00
ATOM 1396	HA	SER A	95	130.113	-6.296	11.934	1.00	0.00
ATOM 1397	1HB	SER A	95	129.052	-3.674	13.016	1.00	0.00
ATOM 1398	2HB	SER A	95	128.741	-5.267	13.702	1.00	0.00
ATOM 1399	HG	SER A	95	131.282	-4.029	13.435	1.00	0.00
ATOM 1400	N	LEU A	96	127.948	-6.655	10.802	1.00	0.00
ATOM 1401	CA	LEU A	96	126.707	-6.902	10.076	1.00	0.00
ATOM 1402	C	LEU A	96	126.785	-6.339	8.660	1.00	0.00
ATOM 1403	O	LEU A	96	126.357	-5.214	8.405	1.00	0.00
ATOM 1404	CB	LEU A	96	125.525	-6.280	10.820	1.00	0.00

ATOM 1405	CG	LEU A	96	124.921	-7.153	11.923	1.00	0.00
ATOM 1406	CD1	LEU A	96	125.619	-6.895	13.249	1.00	0.00
ATOM 1407	CD2	LEU A	96	123.427	-6.897	12.046	1.00	0.00
ATOM 1408	H	LEU A	96	128.463	-7.417	11.142	1.00	0.00
ATOM 1409	HA	LEU A	96	126.565	-7.971	10.020	1.00	0.00
ATOM 1410	1HB	LEU A	96	125.854	-5.352	11.264	1.00	0.00
ATOM 1411	2HB	LEU A	96	124.750	-6.062	10.101	1.00	0.00
ATOM 1412	HG	LEU A	96	125.064	-8.194	11.668	1.00	0.00
ATOM 1413	1HD1	LEU A	96	125.088	-6.127	13.791	1.00	0.00
ATOM 1414	2HD1	LEU A	96	126.633	-6.572	13.066	1.00	0.00
ATOM 1415	3HD1	LEU A	96	125.631	-7.805	13.832	1.00	0.00
ATOM 1416	1HD2	LEU A	96	123.258	-6.072	12.722	1.00	0.00
ATOM 1417	2HD2	LEU A	96	122.940	-7.783	12.429	1.00	0.00
ATOM 1418	3HD2	LEU A	96	123.021	-6.656	11.075	1.00	0.00
ATOM 1419	N	GLN A	97	127.334	-7.130	7.744	1.00	0.00
ATOM 1420	CA	GLN A	97	127.467	-6.710	6.354	1.00	0.00
ATOM 1421	C	GLN A	97	126.124	-6.784	5.630	1.00	0.00
ATOM 1422	O	GLN A	97	125.307	-7.660	5.911	1.00	0.00
ATOM 1423	CB	GLN A	97	128.497	-7.581	5.631	1.00	0.00
ATOM 1424	CG	GLN A	97	129.932	-7.129	5.841	1.00	0.00
ATOM 1425	CD	GLN A	97	130.938	-8.074	5.214	1.00	0.00
ATOM 1426	OE1	GLN A	97	131.184	-8.028	4.009	1.00	0.00
ATOM 1427	NE2	GLN A	97	131.527	-8.939	6.032	1.00	0.00
ATOM 1428	H	GLN A	97	127.658	-8.016	8.008	1.00	0.00
ATOM 1429	HA	GLN A	97	127.810	-5.686	6.350	1.00	0.00
ATOM 1430	1HB	GLN A	97	128.405	-8.597	5.989	1.00	0.00
ATOM 1431	2HB	GLN A	97	128.287	-7.563	4.572	1.00	0.00
ATOM 1432	1HG	GLN A	97	130.057	-6.152	5.400	1.00	0.00
ATOM 1433	2HG	GLN A	97	130.126	-7.072	6.902	1.00	0.00

ATOM 1434	1HE2	GLN	A	97	131.282	-8.919	6.981	1.00	0.00
ATOM 1435	2HE2	GLN	A	97	132.182	-9.563	5.653	1.00	0.00
ATOM 1436	N	PRO	A	98	125.878	-5.862	4.683	1.00	0.00
ATOM 1437	CA	PRO	A	98	124.626	-5.830	3.918	1.00	0.00
ATOM 1438	C	PRO	A	98	124.313	-7.172	3.265	1.00	0.00
ATOM 1439	O	PRO	A	98	125.174	-7.777	2.626	1.00	0.00
ATOM 1440	CB	PRO	A	98	124.884	-4.764	2.851	1.00	0.00
ATOM 1441	CG	PRO	A	98	125.933	-3.885	3.438	1.00	0.00
ATOM 1442	CD	PRO	A	98	126.798	-4.781	4.282	1.00	0.00
ATOM 1443	HA	PRO	A	98	123.793	-5.531	4.537	1.00	0.00
ATOM 1444	1HB	PRO	A	98	125.226	-5.237	1.941	1.00	0.00
ATOM 1445	2HB	PRO	A	98	123.974	-4.216	2.659	1.00	0.00
ATOM 1446	1HG	PRO	A	98	126.518	-3.435	2.649	1.00	0.00
ATOM 1447	2HG	PRO	A	98	125.475	-3.122	4.049	1.00	0.00
ATOM 1448	1HD	PRO	A	98	127.620	-5.169	3.699	1.00	0.00
ATOM 1449	2HD	PRO	A	98	127.163	-4.246	5.145	1.00	0.00
ATOM 1450	N	SER	A	99	123.077	-7.631	3.429	1.00	0.00
ATOM 1451	CA	SER	A	99	122.651	-8.902	2.855	1.00	0.00
ATOM 1452	C	SER	A	99	121.170	-9.152	3.124	1.00	0.00
ATOM 1453	O	SER	A	99	120.759	-10.283	3.388	1.00	0.00
ATOM 1454	CB	SER	A	99	123.487	-10.049	3.424	1.00	0.00
ATOM 1455	OG	SER	A	99	123.019	-10.437	4.705	1.00	0.00
ATOM 1456	H	SER	A	99	122.436	-7.103	3.950	1.00	0.00
ATOM 1457	HA	SER	A	99	122.806	-8.851	1.787	1.00	0.00
ATOM 1458	1HB	SER	A	99	123.427	-10.900	2.761	1.00	0.00
ATOM 1459	2HB	SER	A	99	124.517	-9.733	3.511	1.00	0.00
ATOM 1460	HG	SER	A	99	123.492	-11.220	4.995	1.00	0.00
ATOM 1461	N	GLY	A	100	120.374	-8.090	3.056	1.00	0.00
ATOM 1462	CA	GLY	A	100	118.949	-8.215	3.296	1.00	0.00

ATOM 1463	C	GLY A 100	118.516	-7.547	4.588	1.00	0.00
ATOM 1464	O	GLY A 100	119.120	-6.561	5.011	1.00	0.00
ATOM 1465	H	GLY A 100	120.758	-7.215	2.842	1.00	0.00
ATOM 1466	1HA	GLY A 100	118.416	-7.763	2.474	1.00	0.00
ATOM 1467	2HA	GLY A 100	118.693	-9.264	3.343	1.00	0.00
ATOM 1468	N	PRO A 101	117.463	-8.065	5.244	1.00	0.00
ATOM 1469	CA	PRO A 101	116.960	-7.501	6.501	1.00	0.00
ATOM 1470	C	PRO A 101	117.930	-7.710	7.658	1.00	0.00
ATOM 1471	O	PRO A 101	117.857	-8.711	8.369	1.00	0.00
ATOM 1472	CB	PRO A 101	115.661	-8.273	6.745	1.00	0.00
ATOM 1473	CG	PRO A 101	115.843	-9.561	6.019	1.00	0.00
ATOM 1474	CD	PRO A 101	116.682	-9.241	4.813	1.00	0.00
ATOM 1475	HA	PRO A 101	116.743	-6.447	6.400	1.00	0.00
ATOM 1476	1HB	PRO A 101	115.528	-8.432	7.806	1.00	0.00
ATOM 1477	2HB	PRO A 101	114.826	-7.713	6.352	1.00	0.00
ATOM 1478	1HG	PRO A 101	116.352	-10.271	6.653	1.00	0.00
ATOM 1479	2HG	PRO A 101	114.882	-9.949	5.714	1.00	0.00
ATOM 1480	1HD	PRO A 101	117.333	-10.069	4.576	1.00	0.00
ATOM 1481	2HD	PRO A 101	116.054	-8.997	3.970	1.00	0.00
ATOM 1482	N	SER A 102	118.838	-6.757	7.841	1.00	0.00
ATOM 1483	CA	SER A 102	119.823	-6.835	8.913	1.00	0.00
ATOM 1484	C	SER A 102	119.217	-6.399	10.243	1.00	0.00
ATOM 1485	O	SER A 102	119.222	-7.153	11.215	1.00	0.00
ATOM 1486	CB	SER A 102	121.038	-5.967	8.582	1.00	0.00
ATOM 1487	OG	SER A 102	122.023	-6.710	7.886	1.00	0.00
ATOM 1488	H	SER A 102	118.846	-5.982	7.241	1.00	0.00
ATOM 1489	HA	SER A 102	120.141	-7.864	8.996	1.00	0.00
ATOM 1490	1HB	SER A 102	120.728	-5.138	7.964	1.00	0.00
ATOM 1491	2HB	SER A 102	121.469	-5.591	9.499	1.00	0.00

ATOM 1492 HG SER A 102 122.747 -6.129 7.638 1.00 0.00
ATOM 1493 N SER A 103 118.697 -5.177 10.278 1.00 0.00
ATOM 1494 CA SER A 103 118.087 -4.640 11.488 1.00 0.00
ATOM 1495 C SER A 103 116.565 -4.718 11.411 1.00 0.00
ATOM 1496 O SER A 103 116.003 -5.040 10.365 1.00 0.00
ATOM 1497 CB SER A 103 118.524 -3.190 11.705 1.00 0.00
ATOM 1498 OG SER A 103 118.738 -2.530 10.469 1.00 0.00
ATOM 1499 H SER A 103 118.724 -4.622 9.469 1.00 0.00
ATOM 1500 HA SER A 103 118.424 -5.237 12.322 1.00 0.00
ATOM 1501 1HB SER A 103 117.756 -2.662 12.251 1.00 0.00
ATOM 1502 2HB SER A 103 119.444 -3.175 12.271 1.00 0.00
ATOM 1503 HG SER A 103 117.894 -2.380 10.037 1.00 0.00
ATOM 1504 N GLY A 104 115.906 -4.421 12.526 1.00 0.00
ATOM 1505 CA GLY A 104 114.456 -4.464 12.563 1.00 0.00
ATOM 1506 C GLY A 104 113.868 -3.401 13.471 1.00 0.00
ATOM 1507 O GLY A 104 112.673 -3.076 13.307 1.00 0.00
ATOM 1508 OXT GLY A 104 114.602 -2.895 14.345 1.00 0.00
ATOM 1509 H GLY A 104 116.408 -4.171 13.329 1.00 0.00
ATOM 1510 1HA GLY A 104 114.077 -4.317 11.563 1.00 0.00
ATOM 1511 2HA GLY A 104 114.144 -5.435 12.916 1.00 0.00
TER 1512 GLY A 104
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ATOM 1 N GLY A 1 128.661 32.040 -7.283 1.00 0.00
ATOM 2 CA GLY A 1 128.278 31.541 -8.634 1.00 0.00
ATOM 3 C GLY A 1 128.677 30.095 -8.853 1.00 0.00
ATOM 4 O GLY A 1 129.352 29.771 -9.830 1.00 0.00

ATOM 5	1H	GLY A	1	128.790	31.240	-6.631	1.00	0.00
ATOM 6	2H	GLY A	1	127.917	32.661	-6.908	1.00	0.00
ATOM 7	3H	GLY A	1	129.550	32.576	-7.339	1.00	0.00
ATOM 8	1HA	GLY A	1	127.208	31.628	-8.748	1.00	0.00
ATOM 9	2HA	GLY A	1	128.760	32.153	-9.381	1.00	0.00
ATOM 10	N	SER A	2	128.260	29.223	-7.941	1.00	0.00
ATOM 11	CA	SER A	2	128.578	27.804	-8.038	1.00	0.00
ATOM 12	C	SER A	2	127.444	27.036	-8.709	1.00	0.00
ATOM 13	O	SER A	2	126.367	26.872	-8.134	1.00	0.00
ATOM 14	CB	SER A	2	128.851	27.223	-6.648	1.00	0.00
ATOM 15	OG	SER A	2	129.404	25.922	-6.738	1.00	0.00
ATOM 16	H	SER A	2	127.726	29.543	-7.184	1.00	0.00
ATOM 17	HA	SER A	2	129.469	27.704	-8.640	1.00	0.00
ATOM 18	1HB	SER A	2	129.546	27.862	-6.125	1.00	0.00
ATOM 19	2HB	SER A	2	127.925	27.171	-6.096	1.00	0.00
ATOM 20	HG	SER A	2	128.747	25.319	-7.092	1.00	0.00
ATOM 21	N	SER A	3	127.692	26.569	-9.927	1.00	0.00
ATOM 22	CA	SER A	3	126.691	25.818	-10.677	1.00	0.00
ATOM 23	C	SER A	3	127.354	24.865	-11.666	1.00	0.00
ATOM 24	O	SER A	3	128.088	25.290	-12.557	1.00	0.00
ATOM 25	CB	SER A	3	125.757	26.775	-11.421	1.00	0.00
ATOM 26	OG	SER A	3	124.425	26.291	-11.422	1.00	0.00
ATOM 27	H	SER A	3	128.569	26.732	-10.333	1.00	0.00
ATOM 28	HA	SER A	3	126.112	25.241	-9.972	1.00	0.00
ATOM 29	1HB	SER A	3	125.775	27.741	-10.938	1.00	0.00
ATOM 30	2HB	SER A	3	126.092	26.879	-12.443	1.00	0.00
ATOM 31	HG	SER A	3	124.425	25.355	-11.635	1.00	0.00
ATOM 32	N	GLY A	4	127.089	23.572	-11.501	1.00	0.00
ATOM 33	CA	GLY A	4	127.667	22.578	-12.387	1.00	0.00

ATOM 34	C	GLY A	4	128.856	21.870	-11.767	1.00	0.00
ATOM 35	O	GLY A	4	129.986	22.018	-12.232	1.00	0.00
ATOM 36	H	GLY A	4	126.496	23.292	-10.773	1.00	0.00
ATOM 37	1HA	GLY A	4	126.912	21.846	-12.629	1.00	0.00
ATOM 38	2HA	GLY A	4	127.987	23.065	-13.296	1.00	0.00
ATOM 39	N	SER A	5	128.601	21.102	-10.713	1.00	0.00
ATOM 40	CA	SER A	5	129.658	20.368	-10.028	1.00	0.00
ATOM 41	C	SER A	5	129.088	19.175	-9.268	1.00	0.00
ATOM 42	O	SER A	5	128.573	19.321	-8.159	1.00	0.00
ATOM 43	CB	SER A	5	130.405	21.292	-9.064	1.00	0.00
ATOM 44	OG	SER A	5	131.790	20.992	-9.042	1.00	0.00
ATOM 45	H	SER A	5	127.679	21.025	-10.389	1.00	0.00
ATOM 46	HA	SER A	5	130.349	20.006	-10.775	1.00	0.00
ATOM 47	1HB	SER A	5	130.277	22.316	-9.379	1.00	0.00
ATOM 48	2HB	SER A	5	130.007	21.167	-8.068	1.00	0.00
ATOM 49	HG	SER A	5	132.155	21.097	-9.923	1.00	0.00
ATOM 50	N	SER A	6	129.183	17.994	-9.872	1.00	0.00
ATOM 51	CA	SER A	6	128.676	16.776	-9.250	1.00	0.00
ATOM 52	C	SER A	6	129.453	15.555	-9.733	1.00	0.00
ATOM 53	O	SER A	6	130.044	15.570	-10.812	1.00	0.00
ATOM 54	CB	SER A	6	127.188	16.602	-9.560	1.00	0.00
ATOM 55	OG	SER A	6	126.446	17.739	-9.155	1.00	0.00
ATOM 56	H	SER A	6	129.605	17.942	-10.754	1.00	0.00
ATOM 57	HA	SER A	6	128.803	16.870	-8.183	1.00	0.00
ATOM 58	1HB	SER A	6	127.058	16.465	-10.624	1.00	0.00
ATOM 59	2HB	SER A	6	126.812	15.736	-9.037	1.00	0.00
ATOM 60	HG	SER A	6	126.383	18.358	-9.886	1.00	0.00
ATOM 61	N	GLY A	7	129.449	14.499	-8.923	1.00	0.00
ATOM 62	CA	GLY A	7	130.157	13.284	-9.285	1.00	0.00

ATOM 63	C	GLY A	7	129.219	12.168	-9.702	1.00	0.00
ATOM 64	O	GLY A	7	128.072	12.417	-10.073	1.00	0.00
ATOM 65	H	GLY A	7	128.959	14.546	-8.076	1.00	0.00
ATOM 66	1HA	GLY A	7	130.827	13.502	-10.102	1.00	0.00
ATOM 67	2HA	GLY A	7	130.737	12.954	-8.436	1.00	0.00
ATOM 68	N	LEU A	8	129.709	10.933	-9.643	1.00	0.00
ATOM 69	CA	LEU A	8	128.907	9.775	-10.020	1.00	0.00
ATOM 70	C	LEU A	8	128.373	9.055	-8.786	1.00	0.00
ATOM 71	O	LEU A	8	127.214	9.226	-8.408	1.00	0.00
ATOM 72	CB	LEU A	8	129.733	8.811	-10.875	1.00	0.00
ATOM 73	CG	LEU A	8	130.035	9.300	-12.295	1.00	0.00
ATOM 74	CD1	LEU A	8	131.479	9.764	-12.405	1.00	0.00
ATOM 75	CD2	LEU A	8	129.747	8.203	-13.310	1.00	0.00
ATOM 76	H	LEU A	8	130.632	10.798	-9.340	1.00	0.00
ATOM 77	HA	LEU A	8	128.071	10.128	-10.601	1.00	0.00
ATOM 78	1HB	LEU A	8	130.672	8.631	-10.370	1.00	0.00
ATOM 79	2HB	LEU A	8	129.197	7.877	-10.946	1.00	0.00
ATOM 80	HG	LEU A	8	129.396	10.142	-12.520	1.00	0.00
ATOM 81	1HD1	LEU A	8	132.084	8.967	-12.811	1.00	0.00
ATOM 82	2HD1	LEU A	8	131.847	10.033	-11.426	1.00	0.00
ATOM 83	3HD1	LEU A	8	131.532	10.623	-13.057	1.00	0.00
ATOM 84	1HD2	LEU A	8	128.770	7.784	-13.120	1.00	0.00
ATOM 85	2HD2	LEU A	8	130.494	7.428	-13.224	1.00	0.00
ATOM 86	3HD2	LEU A	8	129.773	8.619	-14.307	1.00	0.00
ATOM 87	N	ALA A	9	129.225	8.249	-8.164	1.00	0.00
ATOM 88	CA	ALA A	9	128.841	7.501	-6.974	1.00	0.00
ATOM 89	C	ALA A	9	129.972	7.479	-5.949	1.00	0.00
ATOM 90	O	ALA A	9	130.411	6.414	-5.515	1.00	0.00
ATOM 91	CB	ALA A	9	128.437	6.083	-7.351	1.00	0.00

ATOM 92	H	ALA A	9	130.134	8.155	-8.515	1.00	0.00
ATOM 93	HA	ALA A	9	127.982	7.990	-6.536	1.00	0.00
ATOM 94	1HB	ALA A	9	127.590	5.779	-6.753	1.00	0.00
ATOM 95	2HB	ALA A	9	129.265	5.413	-7.170	1.00	0.00
ATOM 96	3HB	ALA A	9	128.169	6.050	-8.397	1.00	0.00
ATOM 97	N	MET A	10	130.436	8.662	-5.564	1.00	0.00
ATOM 98	CA	MET A	10	131.515	8.780	-4.589	1.00	0.00
ATOM 99	C	MET A	10	131.300	9.989	-3.682	1.00	0.00
ATOM 100	O	MET A	10	131.896	11.046	-3.891	1.00	0.00
ATOM 101	CB	MET A	10	132.865	8.894	-5.300	1.00	0.00
ATOM 102	CG	MET A	10	133.150	7.745	-6.251	1.00	0.00
ATOM 103	SD	MET A	10	132.756	8.146	-7.965	1.00	0.00
ATOM 104	CE	MET A	10	132.516	6.510	-8.649	1.00	0.00
ATOM 105	H	MET A	10	130.045	9.477	-5.944	1.00	0.00
ATOM 106	HA	MET A	10	131.511	7.885	-3.984	1.00	0.00
ATOM 107	1HB	MET A	10	132.884	9.814	-5.863	1.00	0.00
ATOM 108	2HB	MET A	10	133.647	8.922	-4.556	1.00	0.00
ATOM 109	1HG	MET A	10	134.199	7.495	-6.189	1.00	0.00
ATOM 110	2HG	MET A	10	132.561	6.891	-5.952	1.00	0.00
ATOM 111	1HE	MET A	10	132.646	5.771	-7.871	1.00	0.00
ATOM 112	2HE	MET A	10	133.238	6.337	-9.434	1.00	0.00
ATOM 113	3HE	MET A	10	131.518	6.432	-9.055	1.00	0.00
ATOM 114	N	PRO A	11	130.443	9.848	-2.657	1.00	0.00
ATOM 115	CA	PRO A	11	130.153	10.934	-1.716	1.00	0.00
ATOM 116	C	PRO A	11	131.417	11.515	-1.082	1.00	0.00
ATOM 117	O	PRO A	11	131.571	12.734	-1.000	1.00	0.00
ATOM 118	CB	PRO A	11	129.275	10.269	-0.652	1.00	0.00
ATOM 119	CG	PRO A	11	128.670	9.092	-1.338	1.00	0.00
ATOM 120	CD	PRO A	11	129.690	8.622	-2.334	1.00	0.00

ATOM 121	HA	PRO A	11	129.600	11.730	-2.194	1.00	0.00
ATOM 122	1HB	PRO A	11	129.885	9.969	0.187	1.00	0.00
ATOM 123	2HB	PRO A	11	128.517	10.964	-0.322	1.00	0.00
ATOM 124	1HG	PRO A	11	128.463	8.314	-0.617	1.00	0.00
ATOM 125	2HG	PRO A	11	127.762	9.388	-1.842	1.00	0.00
ATOM 126	1HD	PRO A	11	130.338	7.879	-1.891	1.00	0.00
ATOM 127	2HD	PRO A	11	129.205	8.225	-3.214	1.00	0.00
ATOM 128	N	PRO A	12	132.345	10.653	-0.619	1.00	0.00
ATOM 129	CA	PRO A	12	133.588	11.103	0.006	1.00	0.00
ATOM 130	C	PRO A	12	134.652	11.478	-1.020	1.00	0.00
ATOM 131	O	PRO A	12	135.521	12.308	-0.753	1.00	0.00
ATOM 132	CB	PRO A	12	134.024	9.881	0.809	1.00	0.00
ATOM 133	CG	PRO A	12	133.519	8.717	0.026	1.00	0.00
ATOM 134	CD	PRO A	12	132.259	9.179	-0.666	1.00	0.00
ATOM 135	HA	PRO A	12	133.420	11.935	0.673	1.00	0.00
ATOM 136	1HB	PRO A	12	135.102	9.866	0.892	1.00	0.00
ATOM 137	2HB	PRO A	12	133.582	9.915	1.793	1.00	0.00
ATOM 138	1HG	PRO A	12	134.257	8.421	-0.704	1.00	0.00
ATOM 139	2HG	PRO A	12	133.300	7.896	0.692	1.00	0.00
ATOM 140	1HD	PRO A	12	132.244	8.827	-1.687	1.00	0.00
ATOM 141	2HD	PRO A	12	131.389	8.826	-0.133	1.00	0.00
ATOM 142	N	GLY A	13	134.578	10.860	-2.194	1.00	0.00
ATOM 143	CA	GLY A	13	135.540	11.141	-3.243	1.00	0.00
ATOM 144	C	GLY A	13	136.372	9.926	-3.606	1.00	0.00
ATOM 145	O	GLY A	13	136.823	9.792	-4.744	1.00	0.00
ATOM 146	H	GLY A	13	133.864	10.207	-2.350	1.00	0.00
ATOM 147	1HA	GLY A	13	135.011	11.477	-4.122	1.00	0.00
ATOM 148	2HA	GLY A	13	136.201	11.929	-2.911	1.00	0.00
ATOM 149	N	ASN A	14	136.576	9.041	-2.637	1.00	0.00

ATOM 150	CA	ASN A	14	137.359	7.831	-2.859	1.00	0.00
ATOM 151	C	ASN A	14	136.448	6.622	-3.052	1.00	0.00
ATOM 152	O	ASN A	14	136.504	5.949	-4.081	1.00	0.00
ATOM 153	CB	ASN A	14	138.306	7.588	-1.683	1.00	0.00
ATOM 154	CG	ASN A	14	139.254	8.748	-1.453	1.00	0.00
ATOM 155	OD1	ASN A	14	139.787	9.325	-2.401	1.00	0.00
ATOM 156	ND2	ASN A	14	139.469	9.095	-0.190	1.00	0.00
ATOM 157	H	ASN A	14	136.190	9.205	-1.751	1.00	0.00
ATOM 158	HA	ASN A	14	137.943	7.973	-3.756	1.00	0.00
ATOM 159	1HB	ASN A	14	137.724	7.440	-0.785	1.00	0.00
ATOM 160	2HB	ASN A	14	138.890	6.700	-1.878	1.00	0.00
ATOM 161	1HD2	ASN A	14	139.010	8.591	0.514	1.00	0.00
ATOM 162	2HD2	ASN A	14	140.078	9.844	-0.013	1.00	0.00
ATOM 163	N	SER A	15	135.610	6.354	-2.056	1.00	0.00
ATOM 164	CA	SER A	15	134.688	5.227	-2.115	1.00	0.00
ATOM 165	C	SER A	15	133.686	5.283	-0.966	1.00	0.00
ATOM 166	O	SER A	15	132.477	5.196	-1.179	1.00	0.00
ATOM 167	CB	SER A	15	135.459	3.906	-2.071	1.00	0.00
ATOM 168	OG	SER A	15	136.078	3.719	-0.811	1.00	0.00
ATOM 169	H	SER A	15	135.614	6.927	-1.261	1.00	0.00
ATOM 170	HA	SER A	15	134.149	5.288	-3.050	1.00	0.00
ATOM 171	1HB	SER A	15	134.777	3.087	-2.248	1.00	0.00
ATOM 172	2HB	SER A	15	136.221	3.911	-2.837	1.00	0.00
ATOM 173	HG	SER A	15	136.885	4.237	-0.771	1.00	0.00
ATOM 174	N	HIS A	16	134.199	5.429	0.251	1.00	0.00
ATOM 175	CA	HIS A	16	133.350	5.499	1.435	1.00	0.00
ATOM 176	C	HIS A	16	134.106	6.106	2.612	1.00	0.00
ATOM 177	O	HIS A	16	133.587	6.974	3.314	1.00	0.00
ATOM 178	CB	HIS A	16	132.842	4.104	1.805	1.00	0.00

ATOM 179	CG	HIS A	16	131.526	3.761	1.180	1.00	0.00
ATOM 180	ND1	HIS A	16	130.458	4.633	1.148	1.00	0.00
ATOM 181	CD2	HIS A	16	131.106	2.634	0.558	1.00	0.00
ATOM 182	CE1	HIS A	16	129.439	4.057	0.535	1.00	0.00
ATOM 183	NE2	HIS A	16	129.807	2.844	0.167	1.00	0.00
ATOM 184	H	HIS A	16	135.171	5.494	0.356	1.00	0.00
ATOM 185	HA	HIS A	16	132.506	6.129	1.200	1.00	0.00
ATOM 186	1HB	HIS A	16	133.563	3.368	1.482	1.00	0.00
ATOM 187	2HB	HIS A	16	132.728	4.043	2.878	1.00	0.00
ATOM 188	HD1	HIS A	16	130.447	5.540	1.520	1.00	0.00
ATOM 189	HD2	HIS A	16	131.686	1.736	0.400	1.00	0.00
ATOM 190	HE1	HIS A	16	128.470	4.503	0.363	1.00	0.00
ATOM 191	HE2	HIS A	16	129.216	2.171	-0.230	1.00	0.00
ATOM 192	N	GLY A	17	135.334	5.644	2.821	1.00	0.00
ATOM 193	CA	GLY A	17	136.141	6.153	3.915	1.00	0.00
ATOM 194	C	GLY A	17	137.524	5.533	3.954	1.00	0.00
ATOM 195	O	GLY A	17	138.061	5.264	5.029	1.00	0.00
ATOM 196	H	GLY A	17	135.695	4.952	2.230	1.00	0.00
ATOM 197	1HA	GLY A	17	136.242	7.223	3.806	1.00	0.00
ATOM 198	2HA	GLY A	17	135.638	5.944	4.847	1.00	0.00
ATOM 199	N	LEU A	18	138.101	5.304	2.779	1.00	0.00
ATOM 200	CA	LEU A	18	139.430	4.711	2.683	1.00	0.00
ATOM 201	C	LEU A	18	140.509	5.741	3.000	1.00	0.00
ATOM 202	O	LEU A	18	140.848	6.578	2.164	1.00	0.00
ATOM 203	CB	LEU A	18	139.654	4.136	1.283	1.00	0.00
ATOM 204	CG	LEU A	18	138.875	2.856	0.976	1.00	0.00
ATOM 205	CD1	LEU A	18	139.211	2.347	-0.417	1.00	0.00
ATOM 206	CD2	LEU A	18	139.171	1.789	2.022	1.00	0.00
ATOM 207	H	LEU A	18	137.622	5.539	1.957	1.00	0.00

ATOM 208	HA	LEU A	18	139.488	3.910	3.404	1.00	0.00
ATOM 209	1HB	LEU A	18	139.372	4.887	0.559	1.00	0.00
ATOM 210	2HB	LEU A	18	140.707	3.926	1.167	1.00	0.00
ATOM 211	HG	LEU A	18	137.817	3.070	1.007	1.00	0.00
ATOM 212	1HD1	LEU A	18	138.646	1.449	-0.619	1.00	0.00
ATOM 213	2HD1	LEU A	18	140.267	2.128	-0.475	1.00	0.00
ATOM 214	3HD1	LEU A	18	138.960	3.103	-1.147	1.00	0.00
ATOM 215	1HD2	LEU A	18	138.386	1.786	2.764	1.00	0.00
ATOM 216	2HD2	LEU A	18	140.116	2.005	2.498	1.00	0.00
ATOM 217	3HD2	LEU A	18	139.220	0.822	1.546	1.00	0.00
ATOM 218	N	GLU A	19	141.047	5.671	4.214	1.00	0.00
ATOM 219	CA	GLU A	19	142.088	6.596	4.642	1.00	0.00
ATOM 220	C	GLU A	19	143.094	5.900	5.555	1.00	0.00
ATOM 221	O	GLU A	19	142.957	4.714	5.854	1.00	0.00
ATOM 222	CB	GLU A	19	141.470	7.794	5.366	1.00	0.00
ATOM 223	CG	GLU A	19	140.642	7.409	6.580	1.00	0.00
ATOM 224	CD	GLU A	19	140.833	8.365	7.743	1.00	0.00
ATOM 225	OE1	GLU A	19	141.267	7.909	8.821	1.00	0.00
ATOM 226	OE2	GLU A	19	140.549	9.569	7.573	1.00	0.00
ATOM 227	H	GLU A	19	140.736	4.981	4.836	1.00	0.00
ATOM 228	HA	GLU A	19	142.604	6.947	3.760	1.00	0.00
ATOM 229	1HB	GLU A	19	142.262	8.453	5.690	1.00	0.00
ATOM 230	2HB	GLU A	19	140.831	8.327	4.676	1.00	0.00
ATOM 231	1HG	GLU A	19	139.599	7.408	6.304	1.00	0.00
ATOM 232	2HG	GLU A	19	140.931	6.418	6.898	1.00	0.00
ATOM 233	N	VAL A	20	144.102	6.646	5.995	1.00	0.00
ATOM 234	CA	VAL A	20	145.129	6.100	6.874	1.00	0.00
ATOM 235	C	VAL A	20	144.519	5.574	8.170	1.00	0.00
ATOM 236	O	VAL A	20	143.713	6.251	8.807	1.00	0.00

ATOM 237	CB	VAL A	20	146.198	7.156	7.214	1.00	0.00
ATOM 238	CG1	VAL A	20	147.345	6.528	7.991	1.00	0.00
ATOM 239	CG2	VAL A	20	146.707	7.827	5.947	1.00	0.00
ATOM 240	H	VAL A	20	144.157	7.586	5.722	1.00	0.00
ATOM 241	HA	VAL A	20	145.611	5.283	6.356	1.00	0.00
ATOM 242	HB	VAL A	20	145.743	7.912	7.837	1.00	0.00
ATOM 243	1HG1	VAL A	20	148.196	7.193	7.978	1.00	0.00
ATOM 244	2HG1	VAL A	20	147.616	5.587	7.534	1.00	0.00
ATOM 245	3HG1	VAL A	20	147.037	6.357	9.012	1.00	0.00
ATOM 246	1HG2	VAL A	20	146.826	7.086	5.170	1.00	0.00
ATOM 247	2HG2	VAL A	20	147.658	8.296	6.146	1.00	0.00
ATOM 248	3HG2	VAL A	20	145.997	8.574	5.625	1.00	0.00
ATOM 249	N	GLY A	21	144.909	4.361	8.551	1.00	0.00
ATOM 250	CA	GLY A	21	144.389	3.766	9.768	1.00	0.00
ATOM 251	C	GLY A	21	143.355	2.692	9.492	1.00	0.00
ATOM 252	O	GLY A	21	143.267	1.704	10.221	1.00	0.00
ATOM 253	H	GLY A	21	145.553	3.868	8.002	1.00	0.00
ATOM 254	1HA	GLY A	21	145.209	3.327	10.319	1.00	0.00
ATOM 255	2HA	GLY A	21	143.937	4.539	10.371	1.00	0.00
ATOM 256	N	SER A	22	142.573	2.885	8.436	1.00	0.00
ATOM 257	CA	SER A	22	141.539	1.927	8.063	1.00	0.00
ATOM 258	C	SER A	22	142.075	0.916	7.054	1.00	0.00
ATOM 259	O	SER A	22	142.823	1.271	6.144	1.00	0.00
ATOM 260	CB	SER A	22	140.325	2.654	7.480	1.00	0.00
ATOM 261	OG	SER A	22	139.898	3.701	8.333	1.00	0.00
ATOM 262	H	SER A	22	142.693	3.692	7.893	1.00	0.00
ATOM 263	HA	SER A	22	141.238	1.401	8.956	1.00	0.00
ATOM 264	1HB	SER A	22	140.587	3.073	6.520	1.00	0.00
ATOM 265	2HB	SER A	22	139.513	1.952	7.357	1.00	0.00

ATOM 266	HG	SER A	22	139.126	4.127	7.955	1.00	0.00
ATOM 267	N	LEU A	23	141.687	-0.344	7.223	1.00	0.00
ATOM 268	CA	LEU A	23	142.130	-1.405	6.328	1.00	0.00
ATOM 269	C	LEU A	23	141.531	-1.230	4.935	1.00	0.00
ATOM 270	O	LEU A	23	140.386	-0.801	4.790	1.00	0.00
ATOM 271	CB	LEU A	23	141.744	-2.772	6.895	1.00	0.00
ATOM 272	CG	LEU A	23	142.431	-3.144	8.208	1.00	0.00
ATOM 273	CD1	LEU A	23	141.538	-4.048	9.042	1.00	0.00
ATOM 274	CD2	LEU A	23	143.770	-3.816	7.937	1.00	0.00
ATOM 275	H	LEU A	23	141.090	-0.565	7.970	1.00	0.00
ATOM 276	HA	LEU A	23	143.205	-1.347	6.253	1.00	0.00
ATOM 277	1HB	LEU A	23	140.676	-2.783	7.054	1.00	0.00
ATOM 278	2HB	LEU A	23	141.989	-3.525	6.161	1.00	0.00
ATOM 279	HG	LEU A	23	142.617	-2.244	8.774	1.00	0.00
ATOM 280	1HD1	LEU A	23	142.041	-4.300	9.963	1.00	0.00
ATOM 281	2HD1	LEU A	23	141.325	-4.952	8.489	1.00	0.00
ATOM 282	3HD1	LEU A	23	140.614	-3.536	9.264	1.00	0.00
ATOM 283	1HD2	LEU A	23	144.461	-3.574	8.731	1.00	0.00
ATOM 284	2HD2	LEU A	23	144.165	-3.463	6.996	1.00	0.00
ATOM 285	3HD2	LEU A	23	143.633	-4.886	7.891	1.00	0.00
ATOM 286	N	ALA A	24	142.313	-1.568	3.915	1.00	0.00
ATOM 287	CA	ALA A	24	141.861	-1.450	2.534	1.00	0.00
ATOM 288	C	ALA A	24	142.403	-2.592	1.681	1.00	0.00
ATOM 289	O	ALA A	24	143.501	-3.093	1.922	1.00	0.00
ATOM 290	CB	ALA A	24	142.284	-0.109	1.953	1.00	0.00
ATOM 291	H	ALA A	24	143.215	-1.905	4.095	1.00	0.00
ATOM 292	HA	ALA A	24	140.782	-1.492	2.531	1.00	0.00
ATOM 293	1HB	ALA A	24	142.454	-0.213	0.892	1.00	0.00
ATOM 294	2HB	ALA A	24	143.195	0.220	2.433	1.00	0.00

ATOM 295	3HB	ALA A	24	141.506	0.620	2.123	1.00	0.00
ATOM 296	N	GLU A	25	141.625	-3.000	0.683	1.00	0.00
ATOM 297	CA	GLU A	25	142.027	-4.085	-0.206	1.00	0.00
ATOM 298	C	GLU A	25	142.292	-3.564	-1.615	1.00	0.00
ATOM 299	O	GLU A	25	141.654	-2.613	-2.065	1.00	0.00
ATOM 300	CB	GLU A	25	140.948	-5.169	-0.244	1.00	0.00
ATOM 301	CG	GLU A	25	141.402	-6.455	-0.914	1.00	0.00
ATOM 302	CD	GLU A	25	140.293	-7.124	-1.702	1.00	0.00
ATOM 303	OE1	GLU A	25	140.310	-8.368	-1.813	1.00	0.00
ATOM 304	OE2	GLU A	25	139.406	-6.404	-2.207	1.00	0.00
ATOM 305	H	GLU A	25	140.760	-2.562	0.541	1.00	0.00
ATOM 306	HA	GLU A	25	142.939	-4.511	0.184	1.00	0.00
ATOM 307	1HB	GLU A	25	140.651	-5.400	0.768	1.00	0.00
ATOM 308	2HB	GLU A	25	140.093	-4.789	-0.783	1.00	0.00
ATOM 309	1HG	GLU A	25	142.214	-6.228	-1.587	1.00	0.00
ATOM 310	2HG	GLU A	25	141.747	-7.140	-0.153	1.00	0.00
ATOM 311	N	VAL A	26	143.237	-4.195	-2.305	1.00	0.00
ATOM 312	CA	VAL A	26	143.585	-3.794	-3.663	1.00	0.00
ATOM 313	C	VAL A	26	143.070	-4.804	-4.682	1.00	0.00
ATOM 314	O	VAL A	26	142.814	-5.962	-4.350	1.00	0.00
ATOM 315	CB	VAL A	26	145.109	-3.645	-3.830	1.00	0.00
ATOM 316	CG1	VAL A	26	145.442	-3.046	-5.188	1.00	0.00
ATOM 317	CG2	VAL A	26	145.689	-2.798	-2.708	1.00	0.00
ATOM 318	H	VAL A	26	143.710	-4.945	-1.892	1.00	0.00
ATOM 319	HA	VAL A	26	143.128	-2.835	-3.857	1.00	0.00
ATOM 320	HB	VAL A	26	145.555	-4.628	-3.777	1.00	0.00
ATOM 321	1HG1	VAL A	26	145.206	-3.759	-5.964	1.00	0.00
ATOM 322	2HG1	VAL A	26	146.495	-2.806	-5.227	1.00	0.00
ATOM 323	3HG1	VAL A	26	144.862	-2.146	-5.337	1.00	0.00

ATOM 324	1HG2	VAL	A	26	146.698	-2.506	-2.962	1.00	0.00
ATOM 325	2HG2	VAL	A	26	145.699	-3.371	-1.793	1.00	0.00
ATOM 326	3HG2	VAL	A	26	145.082	-1.915	-2.574	1.00	0.00
ATOM 327	N	LYS	A	27	142.921	-4.358	-5.925	1.00	0.00
ATOM 328	CA	LYS	A	27	142.436	-5.222	-6.995	1.00	0.00
ATOM 329	C	LYS	A	27	143.592	-5.717	-7.860	1.00	0.00
ATOM 330	O	LYS	A	27	143.792	-5.240	-8.978	1.00	0.00
ATOM 331	CB	LYS	A	27	141.416	-4.478	-7.859	1.00	0.00
ATOM 332	CG	LYS	A	27	140.325	-5.376	-8.419	1.00	0.00
ATOM 333	CD	LYS	A	27	139.217	-4.565	-9.072	1.00	0.00
ATOM 334	CE	LYS	A	27	138.418	-5.404	-10.055	1.00	0.00
ATOM 335	NZ	LYS	A	27	137.175	-5.947	-9.440	1.00	0.00
ATOM 336	H	LYS	A	27	143.141	-3.425	-6.128	1.00	0.00
ATOM 337	HA	LYS	A	27	141.954	-6.075	-6.539	1.00	0.00
ATOM 338	1HB	LYS	A	27	140.949	-3.709	-7.262	1.00	0.00
ATOM 339	2HB	LYS	A	27	141.933	-4.016	-8.687	1.00	0.00
ATOM 340	1HG	LYS	A	27	140.757	-6.035	-9.158	1.00	0.00
ATOM 341	2HG	LYS	A	27	139.904	-5.960	-7.615	1.00	0.00
ATOM 342	1HD	LYS	A	27	138.552	-4.197	-8.304	1.00	0.00
ATOM 343	2HD	LYS	A	27	139.658	-3.730	-9.599	1.00	0.00
ATOM 344	1HE	LYS	A	27	138.150	-4.788	-10.901	1.00	0.00
ATOM 345	2HE	LYS	A	27	139.033	-6.226	-10.391	1.00	0.00
ATOM 346	1HZ	LYS	A	27	136.546	-5.168	-9.158	1.00	0.00
ATOM 347	2HZ	LYS	A	27	137.409	-6.510	-8.598	1.00	0.00
ATOM 348	3HZ	LYS	A	27	136.675	-6.553	-10.121	1.00	0.00
ATOM 349	N	GLU	A	28	144.348	-6.675	-7.336	1.00	0.00
ATOM 350	CA	GLU	A	28	145.485	-7.234	-8.060	1.00	0.00
ATOM 351	C	GLU	A	28	145.308	-8.734	-8.273	1.00	0.00
ATOM 352	O	GLU	A	28	144.236	-9.284	-8.024	1.00	0.00

ATOM 353	CB	GLU A	28	146.784	-6.962	-7.298	1.00	0.00
ATOM 354	CG	GLU A	28	147.894	-6.398	-8.170	1.00	0.00
ATOM 355	CD	GLU A	28	149.273	-6.814	-7.700	1.00	0.00
ATOM 356	OE1	GLU A	28	149.701	-7.939	-8.037	1.00	0.00
ATOM 357	OE2	GLU A	28	149.927	-6.017	-6.996	1.00	0.00
ATOM 358	H	GLU A	28	144.139	-7.014	-6.441	1.00	0.00
ATOM 359	HA	GLU A	28	145.535	-6.750	-9.023	1.00	0.00
ATOM 360	1HB	GLU A	28	146.583	-6.256	-6.507	1.00	0.00
ATOM 361	2HB	GLU A	28	147.134	-7.887	-6.862	1.00	0.00
ATOM 362	1HG	GLU A	28	147.754	-6.750	-9.181	1.00	0.00
ATOM 363	2HG	GLU A	28	147.834	-5.320	-8.153	1.00	0.00
ATOM 364	N	ASN A	29	146.368	-9.390	-8.733	1.00	0.00
ATOM 365	CA	ASN A	29	146.330	-10.827	-8.978	1.00	0.00
ATOM 366	C	ASN A	29	146.383	-11.602	-7.664	1.00	0.00
ATOM 367	O	ASN A	29	145.481	-12.382	-7.356	1.00	0.00
ATOM 368	CB	ASN A	29	147.492	-11.244	-9.881	1.00	0.00
ATOM 369	CG	ASN A	29	147.075	-11.385	-11.332	1.00	0.00
ATOM 370	OD1	ASN A	29	147.152	-12.470	-11.908	1.00	0.00
ATOM 371	ND2	ASN A	29	146.632	-10.286	-11.930	1.00	0.00
ATOM 372	H	ASN A	29	147.195	-8.896	-8.912	1.00	0.00
ATOM 373	HA	ASN A	29	145.399	-11.052	-9.477	1.00	0.00
ATOM 374	1HB	ASN A	29	148.272	-10.498	-9.822	1.00	0.00
ATOM 375	2HB	ASN A	29	147.882	-12.193	-9.542	1.00	0.00
ATOM 376	1HD2	ASN A	29	146.599	-9.457	-11.409	1.00	0.00
ATOM 377	2HD2	ASN A	29	146.356	-10.349	-12.868	1.00	0.00
ATOM 378	N	PRO A	30	147.447	-11.398	-6.867	1.00	0.00
ATOM 379	CA	PRO A	30	147.615	-12.080	-5.582	1.00	0.00
ATOM 380	C	PRO A	30	146.774	-11.446	-4.474	1.00	0.00
ATOM 381	O	PRO A	30	147.040	-10.320	-4.053	1.00	0.00

ATOM 382	CB	PRO A	30	149.102	-11.897	-5.291	1.00	0.00
ATOM 383	CG	PRO A	30	149.451	-10.601	-5.938	1.00	0.00
ATOM 384	CD	PRO A	30	148.571	-10.485	-7.157	1.00	0.00
ATOM 385	HA	PRO A	30	147.386	-13.132	-5.657	1.00	0.00
ATOM 386	1HB	PRO A	30	149.263	-11.865	-4.223	1.00	0.00
ATOM 387	2HB	PRO A	30	149.660	-12.715	-5.722	1.00	0.00
ATOM 388	1HG	PRO A	30	149.254	-9.787	-5.256	1.00	0.00
ATOM 389	2HG	PRO A	30	150.491	-10.604	-6.227	1.00	0.00
ATOM 390	1HD	PRO A	30	148.221	-9.470	-7.272	1.00	0.00
ATOM 391	2HD	PRO A	30	149.106	-10.802	-8.038	1.00	0.00
ATOM 392	N	PRO A	31	145.743	-12.160	-3.985	1.00	0.00
ATOM 393	CA	PRO A	31	144.867	-11.651	-2.922	1.00	0.00
ATOM 394	C	PRO A	31	145.631	-11.361	-1.634	1.00	0.00
ATOM 395	O	PRO A	31	145.878	-12.261	-0.831	1.00	0.00
ATOM 396	CB	PRO A	31	143.861	-12.788	-2.699	1.00	0.00
ATOM 397	CG	PRO A	31	143.932	-13.617	-3.935	1.00	0.00
ATOM 398	CD	PRO A	31	145.346	-13.508	-4.423	1.00	0.00
ATOM 399	HA	PRO A	31	144.345	-10.759	-3.236	1.00	0.00
ATOM 400	1HB	PRO A	31	144.145	-13.356	-1.825	1.00	0.00
ATOM 401	2HB	PRO A	31	142.874	-12.374	-2.559	1.00	0.00
ATOM 402	1HG	PRO A	31	143.693	-14.645	-3.702	1.00	0.00
ATOM 403	2HG	PRO A	31	143.248	-13.232	-4.677	1.00	0.00
ATOM 404	1HD	PRO A	31	145.965	-14.263	-3.962	1.00	0.00
ATOM 405	2HD	PRO A	31	145.383	-13.591	-5.499	1.00	0.00
ATOM 406	N	PHE A	32	146.003	-10.099	-1.443	1.00	0.00
ATOM 407	CA	PHE A	32	146.739	-9.692	-0.251	1.00	0.00
ATOM 408	C	PHE A	32	145.957	-8.649	0.541	1.00	0.00
ATOM 409	O	PHE A	32	145.177	-7.882	-0.023	1.00	0.00
ATOM 410	CB	PHE A	32	148.111	-9.133	-0.638	1.00	0.00

ATOM 411	CG	PHE A	32	148.053	-8.094	-1.721	1.00	0.00
ATOM 412	CD1	PHE A	32	148.601	-8.346	-2.969	1.00	0.00
ATOM 413	CD2	PHE A	32	147.452	-6.868	-1.492	1.00	0.00
ATOM 414	CE1	PHE A	32	148.550	-7.391	-3.967	1.00	0.00
ATOM 415	CE2	PHE A	32	147.398	-5.910	-2.486	1.00	0.00
ATOM 416	CZ	PHE A	32	147.948	-6.173	-3.726	1.00	0.00
ATOM 417	H	PHE A	32	145.778	-9.427	-2.119	1.00	0.00
ATOM 418	HA	PHE A	32	146.878	-10.566	0.367	1.00	0.00
ATOM 419	1HB	PHE A	32	148.565	-8.682	0.231	1.00	0.00
ATOM 420	2HB	PHE A	32	148.735	-9.944	-0.985	1.00	0.00
ATOM 421	HD1	PHE A	32	149.071	-9.298	-3.159	1.00	0.00
ATOM 422	HD2	PHE A	32	147.022	-6.661	-0.523	1.00	0.00
ATOM 423	HE1	PHE A	32	148.981	-7.600	-4.936	1.00	0.00
ATOM 424	HE2	PHE A	32	146.927	-4.957	-2.295	1.00	0.00
ATOM 425	HZ	PHE A	32	147.907	-5.425	-4.505	1.00	0.00
ATOM 426	N	TYR A	33	146.172	-8.627	1.852	1.00	0.00
ATOM 427	CA	TYR A	33	145.487	-7.678	2.724	1.00	0.00
ATOM 428	C	TYR A	33	146.483	-6.735	3.392	1.00	0.00
ATOM 429	O	TYR A	33	147.663	-7.058	3.527	1.00	0.00
ATOM 430	CB	TYR A	33	144.680	-8.423	3.788	1.00	0.00
ATOM 431	CG	TYR A	33	143.321	-8.881	3.308	1.00	0.00
ATOM 432	CD1	TYR A	33	142.445	-7.995	2.695	1.00	0.00
ATOM 433	CD2	TYR A	33	142.916	-10.200	3.468	1.00	0.00
ATOM 434	CE1	TYR A	33	141.203	-8.410	2.254	1.00	0.00
ATOM 435	CE2	TYR A	33	141.675	-10.623	3.030	1.00	0.00
ATOM 436	CZ	TYR A	33	140.822	-9.724	2.425	1.00	0.00
ATOM 437	OH	TYR A	33	139.587	-10.141	1.987	1.00	0.00
ATOM 438	H	TYR A	33	146.805	-9.264	2.244	1.00	0.00
ATOM 439	HA	TYR A	33	144.813	-7.096	2.115	1.00	0.00

ATOM 440	1HB	TYR A	33	145.231	-9.295	4.104	1.00	0.00
ATOM 441	2HB	TYR A	33	144.530	-7.771	4.638	1.00	0.00
ATOM 442	HD1	TYR A	33	142.745	-6.966	2.563	1.00	0.00
ATOM 443	HD2	TYR A	33	143.585	-10.901	3.944	1.00	0.00
ATOM 444	HE1	TYR A	33	140.535	-7.706	1.780	1.00	0.00
ATOM 445	HE2	TYR A	33	141.378	-11.653	3.163	1.00	0.00
ATOM 446	HH	TYR A	33	138.915	-9.527	2.291	1.00	0.00
ATOM 447	N	GLY A	34	146.000	-5.569	3.806	1.00	0.00
ATOM 448	CA	GLY A	34	146.860	-4.597	4.454	1.00	0.00
ATOM 449	C	GLY A	34	146.089	-3.403	4.982	1.00	0.00
ATOM 450	O	GLY A	34	144.865	-3.346	4.867	1.00	0.00
ATOM 451	H	GLY A	34	145.050	-5.367	3.670	1.00	0.00
ATOM 452	1HA	GLY A	34	147.369	-5.075	5.278	1.00	0.00
ATOM 453	2HA	GLY A	34	147.594	-4.251	3.743	1.00	0.00
ATOM 454	N	VAL A	35	146.806	-2.446	5.563	1.00	0.00
ATOM 455	CA	VAL A	35	146.181	-1.248	6.109	1.00	0.00
ATOM 456	C	VAL A	35	146.793	0.013	5.508	1.00	0.00
ATOM 457	O	VAL A	35	147.996	0.070	5.250	1.00	0.00
ATOM 458	CB	VAL A	35	146.314	-1.196	7.645	1.00	0.00
ATOM 459	CG1	VAL A	35	147.778	-1.180	8.059	1.00	0.00
ATOM 460	CG2	VAL A	35	145.577	0.012	8.206	1.00	0.00
ATOM 461	H	VAL A	35	147.779	-2.549	5.624	1.00	0.00
ATOM 462	HA	VAL A	35	145.131	-1.278	5.861	1.00	0.00
ATOM 463	HB	VAL A	35	145.860	-2.086	8.054	1.00	0.00
ATOM 464	1HG1	VAL A	35	148.066	-2.162	8.404	1.00	0.00
ATOM 465	2HG1	VAL A	35	147.920	-0.463	8.855	1.00	0.00
ATOM 466	3HG1	VAL A	35	148.389	-0.902	7.213	1.00	0.00
ATOM 467	1HG2	VAL A	35	145.215	-0.216	9.197	1.00	0.00
ATOM 468	2HG2	VAL A	35	144.744	0.256	7.564	1.00	0.00

ATOM 469	3HG2	VAL A	35	146.252	0.854	8.255	1.00	0.00
ATOM 470	N	ILE A	36	145.957	1.023	5.287	1.00	0.00
ATOM 471	CA	ILE A	36	146.417	2.284	4.717	1.00	0.00
ATOM 472	C	ILE A	36	147.383	2.991	5.660	1.00	0.00
ATOM 473	O	ILE A	36	147.192	2.989	6.877	1.00	0.00
ATOM 474	CB	ILE A	36	145.237	3.227	4.404	1.00	0.00
ATOM 475	CG1	ILE A	36	144.177	2.498	3.576	1.00	0.00
ATOM 476	CG2	ILE A	36	145.730	4.467	3.673	1.00	0.00
ATOM 477	CD1	ILE A	36	142.978	3.357	3.239	1.00	0.00
ATOM 478	H	ILE A	36	145.010	0.918	5.514	1.00	0.00
ATOM 479	HA	ILE A	36	146.929	2.063	3.791	1.00	0.00
ATOM 480	HB	ILE A	36	144.800	3.541	5.340	1.00	0.00
ATOM 481	1HG1	ILE A	36	144.619	2.169	2.647	1.00	0.00
ATOM 482	2HG1	ILE A	36	143.826	1.638	4.126	1.00	0.00
ATOM 483	1HG2	ILE A	36	145.006	4.756	2.925	1.00	0.00
ATOM 484	2HG2	ILE A	36	146.675	4.252	3.195	1.00	0.00
ATOM 485	3HG2	ILE A	36	145.859	5.274	4.379	1.00	0.00
ATOM 486	1HD1	ILE A	36	142.825	3.361	2.170	1.00	0.00
ATOM 487	2HD1	ILE A	36	143.151	4.367	3.582	1.00	0.00
ATOM 488	3HD1	ILE A	36	142.100	2.957	3.726	1.00	0.00
ATOM 489	N	ARG A	37	148.422	3.594	5.092	1.00	0.00
ATOM 490	CA	ARG A	37	149.419	4.306	5.884	1.00	0.00
ATOM 491	C	ARG A	37	149.600	5.734	5.378	1.00	0.00
ATOM 492	O	ARG A	37	149.315	6.696	6.093	1.00	0.00
ATOM 493	CB	ARG A	37	150.757	3.565	5.841	1.00	0.00
ATOM 494	CG	ARG A	37	150.628	2.064	6.040	1.00	0.00
ATOM 495	CD	ARG A	37	150.143	1.726	7.441	1.00	0.00
ATOM 496	NE	ARG A	37	150.984	2.329	8.471	1.00	0.00
ATOM 497	CZ	ARG A	37	150.601	2.499	9.735	1.00	0.00

ATOM 498	NH1	ARG A	37	149.394	2.110	10.129	1.00	0.00
ATOM 499	NH2	ARG A	37	151.427	3.058	10.608	1.00	0.00
ATOM 500	H	ARG A	37	148.520	3.561	4.118	1.00	0.00
ATOM 501	HA	ARG A	37	149.069	4.340	6.905	1.00	0.00
ATOM 502	1HB	ARG A	37	151.224	3.742	4.884	1.00	0.00
ATOM 503	2HB	ARG A	37	151.396	3.955	6.620	1.00	0.00
ATOM 504	1HG	ARG A	37	149.922	1.675	5.323	1.00	0.00
ATOM 505	2HG	ARG A	37	151.594	1.605	5.883	1.00	0.00
ATOM 506	1HD	ARG A	37	149.133	2.090	7.555	1.00	0.00
ATOM 507	2HD	ARG A	37	150.153	0.653	7.563	1.00	0.00
ATOM 508	HE	ARG A	37	151.881	2.624	8.209	1.00	0.00
ATOM 509	1HH1	ARG A	37	148.767	1.687	9.476	1.00	0.00
ATOM 510	2HH1	ARG A	37	149.113	2.240	11.079	1.00	0.00
ATOM 511	1HH2	ARG A	37	152.338	3.353	10.317	1.00	0.00
ATOM 512	2HH2	ARG A	37	151.140	3.187	11.558	1.00	0.00
ATOM 513	N	TRP A	38	150.072	5.866	4.142	1.00	0.00
ATOM 514	CA	TRP A	38	150.288	7.178	3.544	1.00	0.00
ATOM 515	C	TRP A	38	149.492	7.328	2.251	1.00	0.00
ATOM 516	O	TRP A	38	149.509	6.447	1.392	1.00	0.00
ATOM 517	CB	TRP A	38	151.780	7.399	3.270	1.00	0.00
ATOM 518	CG	TRP A	38	152.063	8.608	2.427	1.00	0.00
ATOM 519	CD1	TRP A	38	152.324	9.874	2.866	1.00	0.00
ATOM 520	CD2	TRP A	38	152.107	8.664	0.996	1.00	0.00
ATOM 521	NE1	TRP A	38	152.526	10.713	1.797	1.00	0.00
ATOM 522	CE2	TRP A	38	152.399	9.993	0.638	1.00	0.00
ATOM 523	CE3	TRP A	38	151.928	7.718	-0.018	1.00	0.00
ATOM 524	CZ2	TRP A	38	152.516	10.399	-0.691	1.00	0.00
ATOM 525	CZ3	TRP A	38	152.045	8.121	-1.335	1.00	0.00
ATOM 526	CH2	TRP A	38	152.336	9.450	-1.661	1.00	0.00

ATOM 527	H	TRP A	38	150.280	5.062	3.622	1.00	0.00
ATOM 528	HA	TRP A	38	149.949	7.922	4.248	1.00	0.00
ATOM 529	1HB	TRP A	38	152.298	7.522	4.209	1.00	0.00
ATOM 530	2HB	TRP A	38	152.176	6.534	2.757	1.00	0.00
ATOM 531	HD1	TRP A	38	152.360	10.161	3.907	1.00	0.00
ATOM 532	HE1	TRP A	38	152.730	11.670	1.855	1.00	0.00
ATOM 533	HE3	TRP A	38	151.702	6.688	0.214	1.00	0.00
ATOM 534	HZ2	TRP A	38	152.738	11.420	-0.959	1.00	0.00
ATOM 535	HZ3	TRP A	38	151.910	7.403	-2.131	1.00	0.00
ATOM 536	HH2	TRP A	38	152.419	9.721	-2.704	1.00	0.00
ATOM 537	N	ILE A	39	148.803	8.456	2.118	1.00	0.00
ATOM 538	CA	ILE A	39	148.008	8.733	0.928	1.00	0.00
ATOM 539	C	ILE A	39	148.425	10.058	0.302	1.00	0.00
ATOM 540	O	ILE A	39	148.116	11.128	0.827	1.00	0.00
ATOM 541	CB	ILE A	39	146.503	8.781	1.255	1.00	0.00
ATOM 542	CG1	ILE A	39	146.092	7.549	2.061	1.00	0.00
ATOM 543	CG2	ILE A	39	145.687	8.879	-0.026	1.00	0.00
ATOM 544	CD1	ILE A	39	144.786	7.722	2.806	1.00	0.00
ATOM 545	H	ILE A	39	148.836	9.121	2.836	1.00	0.00
ATOM 546	HA	ILE A	39	148.179	7.937	0.218	1.00	0.00
ATOM 547	HB	ILE A	39	146.313	9.668	1.841	1.00	0.00
ATOM 548	1HG1	ILE A	39	145.982	6.708	1.392	1.00	0.00
ATOM 549	2HG1	ILE A	39	146.861	7.328	2.786	1.00	0.00
ATOM 550	1HG2	ILE A	39	146.116	8.231	-0.776	1.00	0.00
ATOM 551	2HG2	ILE A	39	145.698	9.899	-0.383	1.00	0.00
ATOM 552	3HG2	ILE A	39	144.670	8.577	0.171	1.00	0.00
ATOM 553	1HD1	ILE A	39	144.681	6.934	3.538	1.00	0.00
ATOM 554	2HD1	ILE A	39	143.964	7.676	2.107	1.00	0.00
ATOM 555	3HD1	ILE A	39	144.781	8.680	3.306	1.00	0.00

ATOM 556	N	GLY A	40	149.136	9.983	-0.819	1.00	0.00
ATOM 557	CA	GLY A	40	149.587	11.188	-1.488	1.00	0.00
ATOM 558	C	GLY A	40	150.050	10.933	-2.908	1.00	0.00
ATOM 559	O	GLY A	40	149.843	9.848	-3.453	1.00	0.00
ATOM 560	H	GLY A	40	149.357	9.104	-1.191	1.00	0.00
ATOM 561	1HA	GLY A	40	148.778	11.900	-1.508	1.00	0.00
ATOM 562	2HA	GLY A	40	150.407	11.610	-0.926	1.00	0.00
ATOM 563	N	GLN A	41	150.676	11.938	-3.509	1.00	0.00
ATOM 564	CA	GLN A	41	151.171	11.830	-4.875	1.00	0.00
ATOM 565	C	GLN A	41	152.650	12.210	-4.947	1.00	0.00
ATOM 566	O	GLN A	41	153.014	13.357	-4.695	1.00	0.00
ATOM 567	CB	GLN A	41	150.356	12.735	-5.799	1.00	0.00
ATOM 568	CG	GLN A	41	148.852	12.582	-5.627	1.00	0.00
ATOM 569	CD	GLN A	41	148.121	13.907	-5.696	1.00	0.00
ATOM 570	OE1	GLN A	41	148.156	14.700	-4.755	1.00	0.00
ATOM 571	NE2	GLN A	41	147.452	14.154	-6.815	1.00	0.00
ATOM 572	H	GLN A	41	150.807	12.778	-3.022	1.00	0.00
ATOM 573	HA	GLN A	41	151.053	10.806	-5.193	1.00	0.00
ATOM 574	1HB	GLN A	41	150.615	13.762	-5.596	1.00	0.00
ATOM 575	2HB	GLN A	41	150.606	12.504	-6.822	1.00	0.00
ATOM 576	1HG	GLN A	41	148.476	11.940	-6.410	1.00	0.00
ATOM 577	2HG	GLN A	41	148.657	12.129	-4.666	1.00	0.00
ATOM 578	1HE2	GLN A	41	147.467	13.476	-7.523	1.00	0.00
ATOM 579	2HE2	GLN A	41	146.970	15.005	-6.889	1.00	0.00
ATOM 580	N	PRO A	42	153.526	11.248	-5.290	1.00	0.00
ATOM 581	CA	PRO A	42	154.970	11.495	-5.387	1.00	0.00
ATOM 582	C	PRO A	42	155.300	12.609	-6.376	1.00	0.00
ATOM 583	O	PRO A	42	154.494	12.938	-7.247	1.00	0.00
ATOM 584	CB	PRO A	42	155.535	10.160	-5.880	1.00	0.00

ATOM 585	CG	PRO A	42	154.511	9.149	-5.496	1.00	0.00
ATOM 586	CD	PRO A	42	153.188	9.849	-5.607	1.00	0.00
ATOM 587	HA	PRO A	42	155.394	11.735	-4.424	1.00	0.00
ATOM 588	1HB	PRO A	42	155.673	10.197	-6.951	1.00	0.00
ATOM 589	2HB	PRO A	42	156.481	9.965	-5.397	1.00	0.00
ATOM 590	1HG	PRO A	42	154.549	8.309	-6.174	1.00	0.00
ATOM 591	2HG	PRO A	42	154.678	8.821	-4.481	1.00	0.00
ATOM 592	1HD	PRO A	42	152.797	9.763	-6.610	1.00	0.00
ATOM 593	2HD	PRO A	42	152.486	9.450	-4.889	1.00	0.00
ATOM 594	N	PRO A	43	156.498	13.206	-6.255	1.00	0.00
ATOM 595	CA	PRO A	43	156.932	14.287	-7.143	1.00	0.00
ATOM 596	C	PRO A	43	157.257	13.788	-8.547	1.00	0.00
ATOM 597	O	PRO A	43	158.402	13.454	-8.848	1.00	0.00
ATOM 598	CB	PRO A	43	158.194	14.817	-6.464	1.00	0.00
ATOM 599	CG	PRO A	43	158.722	13.662	-5.688	1.00	0.00
ATOM 600	CD	PRO A	43	157.519	12.874	-5.244	1.00	0.00
ATOM 601	HA	PRO A	43	156.194	15.072	-7.203	1.00	0.00
ATOM 602	1HB	PRO A	43	158.899	15.144	-7.215	1.00	0.00
ATOM 603	2HB	PRO A	43	157.940	15.644	-5.818	1.00	0.00
ATOM 604	1HG	PRO A	43	159.356	13.055	-6.317	1.00	0.00
ATOM 605	2HG	PRO A	43	159.273	14.017	-4.830	1.00	0.00
ATOM 606	1HD	PRO A	43	157.738	11.816	-5.252	1.00	0.00
ATOM 607	2HD	PRO A	43	157.204	13.188	-4.261	1.00	0.00
ATOM 608	N	GLY A	44	156.242	13.740	-9.402	1.00	0.00
ATOM 609	CA	GLY A	44	156.443	13.281	-10.762	1.00	0.00
ATOM 610	C	GLY A	44	155.166	12.772	-11.398	1.00	0.00
ATOM 611	O	GLY A	44	154.808	13.184	-12.502	1.00	0.00
ATOM 612	H	GLY A	44	155.350	14.021	-9.106	1.00	0.00
ATOM 613	1HA	GLY A	44	156.824	14.099	-11.354	1.00	0.00

ATOM 614	2HA	GLY A	44	157.171	12.484	-10.757	1.00	0.00
ATOM 615	N	LEU A	45	154.477	11.874	-10.703	1.00	0.00
ATOM 616	CA	LEU A	45	153.232	11.309	-11.212	1.00	0.00
ATOM 617	C	LEU A	45	152.080	11.584	-10.252	1.00	0.00
ATOM 618	O	LEU A	45	152.048	11.056	-9.141	1.00	0.00
ATOM 619	CB	LEU A	45	153.383	9.802	-11.426	1.00	0.00
ATOM 620	CG	LEU A	45	153.993	9.040	-10.248	1.00	0.00
ATOM 621	CD1	LEU A	45	153.616	7.566	-10.311	1.00	0.00
ATOM 622	CD2	LEU A	45	155.507	9.208	-10.230	1.00	0.00
ATOM 623	H	LEU A	45	154.812	11.585	-9.827	1.00	0.00
ATOM 624	HA	LEU A	45	153.016	11.779	-12.159	1.00	0.00
ATOM 625	1HB	LEU A	45	152.405	9.390	-11.629	1.00	0.00
ATOM 626	2HB	LEU A	45	154.010	9.644	-12.292	1.00	0.00
ATOM 627	HG	LEU A	45	153.600	9.444	-9.326	1.00	0.00
ATOM 628	1HD1	LEU A	45	154.508	6.968	-10.422	1.00	0.00
ATOM 629	2HD1	LEU A	45	152.962	7.395	-11.153	1.00	0.00
ATOM 630	3HD1	LEU A	45	153.108	7.286	-9.399	1.00	0.00
ATOM 631	1HD2	LEU A	45	155.978	8.267	-10.475	1.00	0.00
ATOM 632	2HD2	LEU A	45	155.821	9.522	-9.245	1.00	0.00
ATOM 633	3HD2	LEU A	45	155.797	9.954	-10.954	1.00	0.00
ATOM 634	N	ASN A	46	151.134	12.411	-10.685	1.00	0.00
ATOM 635	CA	ASN A	46	149.985	12.744	-9.853	1.00	0.00
ATOM 636	C	ASN A	46	149.025	11.564	-9.775	1.00	0.00
ATOM 637	O	ASN A	46	148.334	11.244	-10.743	1.00	0.00
ATOM 638	CB	ASN A	46	149.263	13.970	-10.414	1.00	0.00
ATOM 639	CG	ASN A	46	148.587	14.788	-9.332	1.00	0.00
ATOM 640	OD1	ASN A	46	147.364	14.927	-9.315	1.00	0.00
ATOM 641	ND2	ASN A	46	149.382	15.336	-8.419	1.00	0.00
ATOM 642	H	ASN A	46	151.209	12.804	-11.580	1.00	0.00

ATOM 643	HA	ASN A	46	150.346	12.969	-8.860	1.00	0.00
ATOM 644	1HB	ASN A	46	149.978	14.601	-10.921	1.00	0.00
ATOM 645	2HB	ASN A	46	148.511	13.647	-11.118	1.00	0.00
ATOM 646	1HD2	ASN A	46	150.346	15.184	-8.495	1.00	0.00
ATOM 647	2HD2	ASN A	46	148.971	15.871	-7.709	1.00	0.00
ATOM 648	N	GLU A	47	148.986	10.919	-8.614	1.00	0.00
ATOM 649	CA	GLU A	47	148.111	9.773	-8.401	1.00	0.00
ATOM 650	C	GLU A	47	148.019	9.432	-6.918	1.00	0.00
ATOM 651	O	GLU A	47	149.028	9.143	-6.276	1.00	0.00
ATOM 652	CB	GLU A	47	148.617	8.560	-9.186	1.00	0.00
ATOM 653	CG	GLU A	47	150.131	8.423	-9.196	1.00	0.00
ATOM 654	CD	GLU A	47	150.624	7.484	-10.279	1.00	0.00
ATOM 655	OE1	GLU A	47	150.969	6.329	-9.952	1.00	0.00
ATOM 656	OE2	GLU A	47	150.664	7.902	-11.456	1.00	0.00
ATOM 657	H	GLU A	47	149.561	11.222	-7.882	1.00	0.00
ATOM 658	HA	GLU A	47	147.127	10.037	-8.759	1.00	0.00
ATOM 659	1HB	GLU A	47	148.200	7.665	-8.750	1.00	0.00
ATOM 660	2HB	GLU A	47	148.279	8.642	-10.209	1.00	0.00
ATOM 661	1HG	GLU A	47	150.567	9.396	-9.359	1.00	0.00
ATOM 662	2HG	GLU A	47	150.453	8.043	-8.237	1.00	0.00
ATOM 663	N	VAL A	48	146.806	9.458	-6.380	1.00	0.00
ATOM 664	CA	VAL A	48	146.596	9.143	-4.973	1.00	0.00
ATOM 665	C	VAL A	48	146.991	7.702	-4.680	1.00	0.00
ATOM 666	O	VAL A	48	146.235	6.771	-4.959	1.00	0.00
ATOM 667	CB	VAL A	48	145.128	9.358	-4.559	1.00	0.00
ATOM 668	CG1	VAL A	48	144.974	9.233	-3.051	1.00	0.00
ATOM 669	CG2	VAL A	48	144.629	10.711	-5.044	1.00	0.00
ATOM 670	H	VAL A	48	146.036	9.690	-6.940	1.00	0.00
ATOM 671	HA	VAL A	48	147.217	9.805	-4.386	1.00	0.00

ATOM 672	HB	VAL A	48	144.528	8.589	-5.023	1.00	0.00
ATOM 673	1HG1	VAL A	48	144.001	9.600	-2.757	1.00	0.00
ATOM 674	2HG1	VAL A	48	145.741	9.816	-2.562	1.00	0.00
ATOM 675	3HG1	VAL A	48	145.071	8.197	-2.764	1.00	0.00
ATOM 676	1HG2	VAL A	48	143.931	11.115	-4.324	1.00	0.00
ATOM 677	2HG2	VAL A	48	144.136	10.592	-5.996	1.00	0.00
ATOM 678	3HG2	VAL A	48	145.465	11.386	-5.152	1.00	0.00
ATOM 679	N	LEU A	49	148.181	7.521	-4.117	1.00	0.00
ATOM 680	CA	LEU A	49	148.678	6.191	-3.789	1.00	0.00
ATOM 681	C	LEU A	49	148.629	5.954	-2.286	1.00	0.00
ATOM 682	O	LEU A	49	149.336	6.610	-1.521	1.00	0.00
ATOM 683	CB	LEU A	49	150.110	6.016	-4.298	1.00	0.00
ATOM 684	CG	LEU A	49	150.286	6.182	-5.809	1.00	0.00
ATOM 685	CD1	LEU A	49	151.730	6.526	-6.143	1.00	0.00
ATOM 686	CD2	LEU A	49	149.855	4.919	-6.537	1.00	0.00
ATOM 687	H	LEU A	49	148.740	8.302	-3.918	1.00	0.00
ATOM 688	HA	LEU A	49	148.040	5.470	-4.277	1.00	0.00
ATOM 689	1HB	LEU A	49	150.737	6.742	-3.801	1.00	0.00
ATOM 690	2HB	LEU A	49	150.447	5.027	-4.027	1.00	0.00
ATOM 691	HG	LEU A	49	149.662	6.996	-6.150	1.00	0.00
ATOM 692	1HD1	LEU A	49	151.753	7.225	-6.966	1.00	0.00
ATOM 693	2HD1	LEU A	49	152.259	5.626	-6.419	1.00	0.00
ATOM 694	3HD1	LEU A	49	152.202	6.971	-5.280	1.00	0.00
ATOM 695	1HD2	LEU A	49	150.382	4.846	-7.477	1.00	0.00
ATOM 696	2HD2	LEU A	49	148.792	4.955	-6.722	1.00	0.00
ATOM 697	3HD2	LEU A	49	150.085	4.056	-5.929	1.00	0.00
ATOM 698	N	ALA A	50	147.792	5.012	-1.868	1.00	0.00
ATOM 699	CA	ALA A	50	147.655	4.694	-0.455	1.00	0.00
ATOM 700	C	ALA A	50	148.603	3.569	-0.052	1.00	0.00

ATOM 701	O	ALA A	50	148.470	2.437	-0.516	1.00	0.00
ATOM 702	CB	ALA A	50	146.217	4.316	-0.134	1.00	0.00
ATOM 703	H	ALA A	50	147.254	4.523	-2.525	1.00	0.00
ATOM 704	HA	ALA A	50	147.904	5.581	0.109	1.00	0.00
ATOM 705	1HB	ALA A	50	146.127	3.241	-0.091	1.00	0.00
ATOM 706	2HB	ALA A	50	145.563	4.701	-0.904	1.00	0.00
ATOM 707	3HB	ALA A	50	145.936	4.740	0.818	1.00	0.00
ATOM 708	N	GLY A	51	149.560	3.889	0.812	1.00	0.00
ATOM 709	CA	GLY A	51	150.516	2.895	1.261	1.00	0.00
ATOM 710	C	GLY A	51	149.875	1.819	2.115	1.00	0.00
ATOM 711	O	GLY A	51	149.355	2.100	3.194	1.00	0.00
ATOM 712	H	GLY A	51	149.617	4.807	1.148	1.00	0.00
ATOM 713	1HA	GLY A	51	150.970	2.431	0.398	1.00	0.00
ATOM 714	2HA	GLY A	51	151.285	3.386	1.839	1.00	0.00
ATOM 715	N	LEU A	52	149.911	0.582	1.630	1.00	0.00
ATOM 716	CA	LEU A	52	149.328	-0.540	2.356	1.00	0.00
ATOM 717	C	LEU A	52	150.414	-1.411	2.976	1.00	0.00
ATOM 718	O	LEU A	52	151.413	-1.731	2.329	1.00	0.00
ATOM 719	CB	LEU A	52	148.453	-1.379	1.423	1.00	0.00
ATOM 720	CG	LEU A	52	147.160	-0.702	0.966	1.00	0.00
ATOM 721	CD1	LEU A	52	146.473	-1.534	-0.106	1.00	0.00
ATOM 722	CD2	LEU A	52	146.229	-0.481	2.150	1.00	0.00
ATOM 723	H	LEU A	52	150.339	0.420	0.764	1.00	0.00
ATOM 724	HA	LEU A	52	148.712	-0.137	3.146	1.00	0.00
ATOM 725	1HB	LEU A	52	149.035	-1.628	0.547	1.00	0.00
ATOM 726	2HB	LEU A	52	148.193	-2.294	1.934	1.00	0.00
ATOM 727	HG	LEU A	52	147.396	0.262	0.541	1.00	0.00
ATOM 728	1HD1	LEU A	52	147.208	-2.133	-0.621	1.00	0.00
ATOM 729	2HD1	LEU A	52	145.985	-0.878	-0.812	1.00	0.00

ATOM 730	3HD1	LEU A	52	145.739	-2.179	0.353	1.00	0.00
ATOM 731	1HD2	LEU A	52	145.303	-0.046	1.804	1.00	0.00
ATOM 732	2HD2	LEU A	52	146.698	0.185	2.857	1.00	0.00
ATOM 733	3HD2	LEU A	52	146.025	-1.428	2.628	1.00	0.00
ATOM 734	N	GLU A	53	150.214	-1.793	4.232	1.00	0.00
ATOM 735	CA	GLU A	53	151.177	-2.629	4.941	1.00	0.00
ATOM 736	C	GLU A	53	150.694	-4.075	5.012	1.00	0.00
ATOM 737	O	GLU A	53	149.750	-4.389	5.735	1.00	0.00
ATOM 738	CB	GLU A	53	151.412	-2.087	6.352	1.00	0.00
ATOM 739	CG	GLU A	53	152.429	-2.889	7.149	1.00	0.00
ATOM 740	CD	GLU A	53	151.911	-3.295	8.516	1.00	0.00
ATOM 741	OE1	GLU A	53	152.344	-4.351	9.024	1.00	0.00
ATOM 742	OE2	GLU A	53	151.074	-2.557	9.077	1.00	0.00
ATOM 743	H	GLU A	53	149.400	-1.507	4.695	1.00	0.00
ATOM 744	HA	GLU A	53	152.107	-2.599	4.393	1.00	0.00
ATOM 745	1HB	GLU A	53	151.765	-1.069	6.280	1.00	0.00
ATOM 746	2HB	GLU A	53	150.475	-2.097	6.889	1.00	0.00
ATOM 747	1HG	GLU A	53	152.678	-3.782	6.597	1.00	0.00
ATOM 748	2HG	GLU A	53	153.317	-2.289	7.282	1.00	0.00
ATOM 749	N	LEU A	54	151.348	-4.948	4.254	1.00	0.00
ATOM 750	CA	LEU A	54	150.986	-6.361	4.232	1.00	0.00
ATOM 751	C	LEU A	54	151.279	-7.020	5.575	1.00	0.00
ATOM 752	O	LEU A	54	152.360	-6.849	6.139	1.00	0.00
ATOM 753	CB	LEU A	54	151.745	-7.085	3.118	1.00	0.00
ATOM 754	CG	LEU A	54	151.619	-6.449	1.731	1.00	0.00
ATOM 755	CD1	LEU A	54	152.797	-6.845	0.855	1.00	0.00
ATOM 756	CD2	LEU A	54	150.307	-6.853	1.077	1.00	0.00
ATOM 757	H	LEU A	54	152.093	-4.637	3.699	1.00	0.00
ATOM 758	HA	LEU A	54	149.926	-6.427	4.034	1.00	0.00

ATOM 759	1HB	LEU	A	54	152.791	-7.115	3.384	1.00	0.00
ATOM 760	2HB	LEU	A	54	151.376	-8.098	3.058	1.00	0.00
ATOM 761	HG	LEU	A	54	151.627	-5.374	1.834	1.00	0.00
ATOM 762	1HD1	LEU	A	54	153.623	-6.171	1.034	1.00	0.00
ATOM 763	2HD1	LEU	A	54	152.507	-6.790	-0.184	1.00	0.00
ATOM 764	3HD1	LEU	A	54	153.100	-7.855	1.091	1.00	0.00
ATOM 765	1HD2	LEU	A	54	149.987	-7.807	1.472	1.00	0.00
ATOM 766	2HD2	LEU	A	54	150.446	-6.933	0.010	1.00	0.00
ATOM 767	3HD2	LEU	A	54	149.556	-6.106	1.288	1.00	0.00
ATOM 768	N	GLU	A	55	150.309	-7.774	6.083	1.00	0.00
ATOM 769	CA	GLU	A	55	150.462	-8.459	7.360	1.00	0.00
ATOM 770	C	GLU	A	55	151.571	-9.504	7.289	1.00	0.00
ATOM 771	O	GLU	A	55	152.265	-9.755	8.274	1.00	0.00
ATOM 772	CB	GLU	A	55	149.146	-9.124	7.768	1.00	0.00
ATOM 773	CG	GLU	A	55	148.103	-8.144	8.281	1.00	0.00
ATOM 774	CD	GLU	A	55	147.157	-8.774	9.285	1.00	0.00
ATOM 775	OE1	GLU	A	55	145.950	-8.455	9.243	1.00	0.00
ATOM 776	OE2	GLU	A	55	147.622	-9.586	10.112	1.00	0.00
ATOM 777	H	GLU	A	55	149.470	-7.872	5.586	1.00	0.00
ATOM 778	HA	GLU	A	55	150.727	-7.721	8.102	1.00	0.00
ATOM 779	1HB	GLU	A	55	148.734	-9.637	6.911	1.00	0.00
ATOM 780	2HB	GLU	A	55	149.346	-9.845	8.546	1.00	0.00
ATOM 781	1HG	GLU	A	55	148.608	-7.317	8.757	1.00	0.00
ATOM 782	2HG	GLU	A	55	147.527	-7.780	7.444	1.00	0.00
ATOM 783	N	ASP	A	56	151.732	-10.111	6.118	1.00	0.00
ATOM 784	CA	ASP	A	56	152.757	-11.128	5.919	1.00	0.00
ATOM 785	C	ASP	A	56	154.003	-10.528	5.278	1.00	0.00
ATOM 786	O	ASP	A	56	153.911	-9.733	4.342	1.00	0.00
ATOM 787	CB	ASP	A	56	152.217	-12.262	5.046	1.00	0.00

ATOM 788	CG	ASP A	56	151.588	-13.373	5.864	1.00	0.00
ATOM 789	OD1	ASP A	56	151.467	-14.501	5.341	1.00	0.00
ATOM 790	OD2	ASP A	56	151.216	-13.115	7.028	1.00	0.00
ATOM 791	H	ASP A	56	151.148	-9.868	5.370	1.00	0.00
ATOM 792	HA	ASP A	56	153.021	-11.526	6.887	1.00	0.00
ATOM 793	1HB	ASP A	56	151.468	-11.868	4.375	1.00	0.00
ATOM 794	2HB	ASP A	56	153.028	-12.681	4.467	1.00	0.00
ATOM 795	N	GLU A	57	155.169	-10.913	5.787	1.00	0.00
ATOM 796	CA	GLU A	57	156.435	-10.413	5.264	1.00	0.00
ATOM 797	C	GLU A	57	156.757	-11.051	3.916	1.00	0.00
ATOM 798	O	GLU A	57	157.071	-12.238	3.840	1.00	0.00
ATOM 799	CB	GLU A	57	157.567	-10.690	6.256	1.00	0.00
ATOM 800	CG	GLU A	57	157.459	-9.886	7.541	1.00	0.00
ATOM 801	CD	GLU A	57	158.779	-9.793	8.281	1.00	0.00
ATOM 802	OE1	GLU A	57	159.329	-10.852	8.651	1.00	0.00
ATOM 803	OE2	GLU A	57	159.263	-8.661	8.493	1.00	0.00
ATOM 804	H	GLU A	57	155.178	-11.550	6.532	1.00	0.00
ATOM 805	HA	GLU A	57	156.340	-9.346	5.130	1.00	0.00
ATOM 806	1HB	GLU A	57	157.556	-11.740	6.512	1.00	0.00
ATOM 807	2HB	GLU A	57	158.509	-10.453	5.785	1.00	0.00
ATOM 808	1HG	GLU A	57	157.129	-8.886	7.299	1.00	0.00
ATOM 809	2HG	GLU A	57	156.733	-10.357	8.187	1.00	0.00
ATOM 810	N	CYS A	58	156.675	-10.254	2.856	1.00	0.00
ATOM 811	CA	CYS A	58	156.958	-10.741	1.511	1.00	0.00
ATOM 812	C	CYS A	58	158.320	-10.252	1.030	1.00	0.00
ATOM 813	O	CYS A	58	158.642	-9.070	1.145	1.00	0.00
ATOM 814	CB	CYS A	58	155.867	-10.285	0.541	1.00	0.00
ATOM 815	SG	CYS A	58	154.348	-11.261	0.627	1.00	0.00
ATOM 816	H	CYS A	58	156.419	-9.317	2.981	1.00	0.00

ATOM 817	HA	CYS A	58	156.968	-11.820	1.545	1.00	0.00
ATOM 818	1HB	CYS A	58	155.610	-9.259	0.757	1.00	0.00
ATOM 819	2HB	CYS A	58	156.245	-10.350	-0.469	1.00	0.00
ATOM 820	HG	CYS A	58	153.708	-10.768	1.144	1.00	0.00
ATOM 821	N	ALA A	59	159.116	-11.169	0.490	1.00	0.00
ATOM 822	CA	ALA A	59	160.443	-10.831	-0.010	1.00	0.00
ATOM 823	C	ALA A	59	160.355	-9.963	-1.260	1.00	0.00
ATOM 824	O	ALA A	59	159.723	-10.342	-2.247	1.00	0.00
ATOM 825	CB	ALA A	59	161.238	-12.096	-0.297	1.00	0.00
ATOM 826	H	ALA A	59	158.804	-12.096	0.426	1.00	0.00
ATOM 827	HA	ALA A	59	160.959	-10.278	0.763	1.00	0.00
ATOM 828	1HB	ALA A	59	162.273	-11.939	-0.034	1.00	0.00
ATOM 829	2HB	ALA A	59	161.165	-12.335	-1.348	1.00	0.00
ATOM 830	3HB	ALA A	59	160.838	-12.912	0.286	1.00	0.00
ATOM 831	N	GLY A	60	160.991	-8.797	-1.212	1.00	0.00
ATOM 832	CA	GLY A	60	160.970	-7.894	-2.347	1.00	0.00
ATOM 833	C	GLY A	60	160.116	-6.667	-2.097	1.00	0.00
ATOM 834	O	GLY A	60	159.562	-6.088	-3.032	1.00	0.00
ATOM 835	H	GLY A	60	161.478	-8.549	-0.399	1.00	0.00
ATOM 836	1HA	GLY A	60	161.982	-7.578	-2.559	1.00	0.00
ATOM 837	2HA	GLY A	60	160.581	-8.421	-3.206	1.00	0.00
ATOM 838	N	CYS A	61	160.011	-6.269	-0.834	1.00	0.00
ATOM 839	CA	CYS A	61	159.219	-5.102	-0.463	1.00	0.00
ATOM 840	C	CYS A	61	160.044	-4.127	0.371	1.00	0.00
ATOM 841	O	CYS A	61	161.192	-4.408	0.718	1.00	0.00
ATOM 842	CB	CYS A	61	157.976	-5.532	0.318	1.00	0.00
ATOM 843	SG	CYS A	61	156.886	-6.654	-0.588	1.00	0.00
ATOM 844	H	CYS A	61	160.478	-6.771	-0.134	1.00	0.00
ATOM 845	HA	CYS A	61	158.910	-4.609	-1.372	1.00	0.00

ATOM 846	1HB	CYS A	61	158.284	-6.034	1.223	1.00	0.00
ATOM 847	2HB	CYS A	61	157.402	-4.654	0.578	1.00	0.00
ATOM 848	HG	CYS A	61	156.192	-6.941	0.010	1.00	0.00
ATOM 849	N	THR A	62	159.453	-2.980	0.688	1.00	0.00
ATOM 850	CA	THR A	62	160.133	-1.963	1.481	1.00	0.00
ATOM 851	C	THR A	62	159.551	-1.891	2.889	1.00	0.00
ATOM 852	O	THR A	62	158.550	-2.540	3.191	1.00	0.00
ATOM 853	CB	THR A	62	160.022	-0.597	0.802	1.00	0.00
ATOM 854	OG1	THR A	62	158.691	-0.355	0.380	1.00	0.00
ATOM 855	CG2	THR A	62	160.918	-0.457	-0.410	1.00	0.00
ATOM 856	H	THR A	62	158.537	-2.814	0.383	1.00	0.00
ATOM 857	HA	THR A	62	161.175	-2.237	1.548	1.00	0.00
ATOM 858	HB	THR A	62	160.299	0.170	1.509	1.00	0.00
ATOM 859	HG1	THR A	62	158.468	-0.950	-0.338	1.00	0.00
ATOM 860	1HG2	THR A	62	161.948	-0.395	-0.089	1.00	0.00
ATOM 861	2HG2	THR A	62	160.655	0.440	-0.951	1.00	0.00
ATOM 862	3HG2	THR A	62	160.793	-1.315	-1.052	1.00	0.00
ATOM 863	N	ASP A	63	160.186	-1.098	3.746	1.00	0.00
ATOM 864	CA	ASP A	63	159.731	-0.942	5.124	1.00	0.00
ATOM 865	C	ASP A	63	158.970	0.368	5.299	1.00	0.00
ATOM 866	O	ASP A	63	158.997	0.975	6.370	1.00	0.00
ATOM 867	CB	ASP A	63	160.920	-0.987	6.084	1.00	0.00
ATOM 868	CG	ASP A	63	162.000	0.012	5.714	1.00	0.00
ATOM 869	OD1	ASP A	63	161.659	1.181	5.440	1.00	0.00
ATOM 870	OD2	ASP A	63	163.187	-0.376	5.700	1.00	0.00
ATOM 871	H	ASP A	63	160.979	-0.607	3.446	1.00	0.00
ATOM 872	HA	ASP A	63	159.067	-1.762	5.348	1.00	0.00
ATOM 873	1HB	ASP A	63	160.577	-0.765	7.083	1.00	0.00
ATOM 874	2HB	ASP A	63	161.351	-1.977	6.068	1.00	0.00

ATOM 875	N	GLY A	64	158.292	0.798	4.240	1.00	0.00
ATOM 876	CA	GLY A	64	157.532	2.035	4.298	1.00	0.00
ATOM 877	C	GLY A	64	158.158	3.138	3.469	1.00	0.00
ATOM 878	O	GLY A	64	158.231	4.287	3.907	1.00	0.00
ATOM 879	H	GLY A	64	158.307	0.274	3.413	1.00	0.00
ATOM 880	1HA	GLY A	64	156.533	1.848	3.933	1.00	0.00
ATOM 881	2HA	GLY A	64	157.473	2.360	5.326	1.00	0.00
ATOM 882	N	THR A	65	158.611	2.791	2.269	1.00	0.00
ATOM 883	CA	THR A	65	159.233	3.761	1.376	1.00	0.00
ATOM 884	C	THR A	65	158.795	3.533	-0.066	1.00	0.00
ATOM 885	O	THR A	65	158.999	2.456	-0.625	1.00	0.00
ATOM 886	CB	THR A	65	160.758	3.673	1.477	1.00	0.00
ATOM 887	OG1	THR A	65	161.181	2.322	1.501	1.00	0.00
ATOM 888	CG2	THR A	65	161.315	4.351	2.709	1.00	0.00
ATOM 889	H	THR A	65	158.524	1.860	1.976	1.00	0.00
ATOM 890	HA	THR A	65	158.918	4.746	1.685	1.00	0.00
ATOM 891	HB	THR A	65	161.193	4.151	0.611	1.00	0.00
ATOM 892	HG1	THR A	65	160.896	1.911	2.320	1.00	0.00
ATOM 893	1HG2	THR A	65	162.264	3.904	2.967	1.00	0.00
ATOM 894	2HG2	THR A	65	160.625	4.230	3.531	1.00	0.00
ATOM 895	3HG2	THR A	65	161.457	5.403	2.509	1.00	0.00
ATOM 896	N	PHE A	66	158.192	4.556	-0.665	1.00	0.00
ATOM 897	CA	PHE A	66	157.725	4.467	-2.044	1.00	0.00
ATOM 898	C	PHE A	66	158.660	5.221	-2.983	1.00	0.00
ATOM 899	O	PHE A	66	158.855	6.429	-2.843	1.00	0.00
ATOM 900	CB	PHE A	66	156.306	5.025	-2.160	1.00	0.00
ATOM 901	CG	PHE A	66	155.651	4.726	-3.479	1.00	0.00
ATOM 902	CD1	PHE A	66	155.476	3.417	-3.900	1.00	0.00
ATOM 903	CD2	PHE A	66	155.211	5.754	-4.297	1.00	0.00

ATOM 904	CE1	PHE A	66	154.874	3.138	-5.112	1.00	0.00
ATOM 905	CE2	PHE A	66	154.608	5.482	-5.511	1.00	0.00
ATOM 906	CZ	PHE A	66	154.439	4.173	-5.918	1.00	0.00
ATOM 907	H	PHE A	66	158.059	5.390	-0.167	1.00	0.00
ATOM 908	HA	PHE A	66	157.717	3.424	-2.324	1.00	0.00
ATOM 909	1HB	PHE A	66	155.693	4.596	-1.381	1.00	0.00
ATOM 910	2HB	PHE A	66	156.337	6.098	-2.039	1.00	0.00
ATOM 911	HD1	PHE A	66	155.815	2.609	-3.269	1.00	0.00
ATOM 912	HD2	PHE A	66	155.342	6.777	-3.979	1.00	0.00
ATOM 913	HE1	PHE A	66	154.745	2.115	-5.429	1.00	0.00
ATOM 914	HE2	PHE A	66	154.269	6.291	-6.139	1.00	0.00
ATOM 915	HZ	PHE A	66	153.969	3.957	-6.867	1.00	0.00
ATOM 916	N	ARG A	67	159.236	4.503	-3.941	1.00	0.00
ATOM 917	CA	ARG A	67	160.150	5.105	-4.903	1.00	0.00
ATOM 918	C	ARG A	67	161.354	5.721	-4.197	1.00	0.00
ATOM 919	O	ARG A	67	161.911	6.720	-4.654	1.00	0.00
ATOM 920	CB	ARG A	67	159.427	6.171	-5.728	1.00	0.00
ATOM 921	CG	ARG A	67	158.093	5.706	-6.288	1.00	0.00
ATOM 922	CD	ARG A	67	158.260	5.031	-7.639	1.00	0.00
ATOM 923	NE	ARG A	67	158.418	3.585	-7.514	1.00	0.00
ATOM 924	CZ	ARG A	67	158.263	2.732	-8.524	1.00	0.00
ATOM 925	NH1	ARG A	67	157.948	3.175	-9.734	1.00	0.00
ATOM 926	NH2	ARG A	67	158.425	1.431	-8.324	1.00	0.00
ATOM 927	H	ARG A	67	159.042	3.544	-4.001	1.00	0.00
ATOM 928	HA	ARG A	67	160.497	4.325	-5.564	1.00	0.00
ATOM 929	1HB	ARG A	67	159.250	7.034	-5.104	1.00	0.00
ATOM 930	2HB	ARG A	67	160.059	6.460	-6.555	1.00	0.00
ATOM 931	1HG	ARG A	67	157.650	5.003	-5.598	1.00	0.00
ATOM 932	2HG	ARG A	67	157.443	6.562	-6.399	1.00	0.00

ATOM 933	1HD	ARG A	67	157.388	5.238	-8.241	1.00	0.00
ATOM 934	2HD	ARG A	67	159.135	5.440	-8.125	1.00	0.00
ATOM 935	HE	ARG A	67	158.653	3.231	-6.631	1.00	0.00
ATOM 936	1HH1	ARG A	67	157.826	4.156	-9.892	1.00	0.00
ATOM 937	2HH1	ARG A	67	157.834	2.530	-10.489	1.00	0.00
ATOM 938	1HH2	ARG A	67	158.663	1.091	-7.413	1.00	0.00
ATOM 939	2HH2	ARG A	67	158.308	0.789	-9.082	1.00	0.00
ATOM 940	N	GLY A	68	161.749	5.121	-3.080	1.00	0.00
ATOM 941	CA	GLY A	68	162.884	5.624	-2.328	1.00	0.00
ATOM 942	C	GLY A	68	162.519	6.802	-1.446	1.00	0.00
ATOM 943	O	GLY A	68	163.364	7.644	-1.143	1.00	0.00
ATOM 944	H	GLY A	68	161.268	4.328	-2.763	1.00	0.00
ATOM 945	1HA	GLY A	68	163.271	4.829	-1.708	1.00	0.00
ATOM 946	2HA	GLY A	68	163.652	5.931	-3.021	1.00	0.00
ATOM 947	N	THR A	69	161.257	6.861	-1.033	1.00	0.00
ATOM 948	CA	THR A	69	160.782	7.945	-0.180	1.00	0.00
ATOM 949	C	THR A	69	159.945	7.403	0.975	1.00	0.00
ATOM 950	O	THR A	69	158.848	6.885	0.769	1.00	0.00
ATOM 951	CB	THR A	69	159.959	8.941	-0.998	1.00	0.00
ATOM 952	OG1	THR A	69	160.631	9.282	-2.197	1.00	0.00
ATOM 953	CG2	THR A	69	159.663	10.226	-0.255	1.00	0.00
ATOM 954	H	THR A	69	160.630	6.160	-1.307	1.00	0.00
ATOM 955	HA	THR A	69	161.646	8.451	0.223	1.00	0.00
ATOM 956	HB	THR A	69	159.014	8.483	-1.257	1.00	0.00
ATOM 957	HG1	THR A	69	160.053	9.815	-2.748	1.00	0.00
ATOM 958	1HG2	THR A	69	159.554	10.015	0.799	1.00	0.00
ATOM 959	2HG2	THR A	69	158.749	10.658	-0.634	1.00	0.00
ATOM 960	3HG2	THR A	69	160.477	10.920	-0.401	1.00	0.00
ATOM 961	N	ARG A	70	160.472	7.526	2.189	1.00	0.00

ATOM 962	CA	ARG A	70	159.773	7.048	3.376	1.00	0.00
ATOM 963	C	ARG A	70	158.628	7.985	3.747	1.00	0.00
ATOM 964	O	ARG A	70	158.820	9.195	3.876	1.00	0.00
ATOM 965	CB	ARG A	70	160.745	6.923	4.551	1.00	0.00
ATOM 966	CG	ARG A	70	160.211	6.076	5.694	1.00	0.00
ATOM 967	CD	ARG A	70	160.766	6.535	7.033	1.00	0.00
ATOM 968	NE	ARG A	70	162.223	6.642	7.014	1.00	0.00
ATOM 969	CZ	ARG A	70	162.971	6.784	8.106	1.00	0.00
ATOM 970	NH1	ARG A	70	162.403	6.833	9.305	1.00	0.00
ATOM 971	NH2	ARG A	70	164.289	6.874	8.000	1.00	0.00
ATOM 972	H	ARG A	70	161.351	7.948	2.289	1.00	0.00
ATOM 973	HA	ARG A	70	159.366	6.074	3.151	1.00	0.00
ATOM 974	1HB	ARG A	70	161.662	6.474	4.198	1.00	0.00
ATOM 975	2HB	ARG A	70	160.961	7.909	4.932	1.00	0.00
ATOM 976	1HG	ARG A	70	159.134	6.157	5.717	1.00	0.00
ATOM 977	2HG	ARG A	70	160.493	5.047	5.530	1.00	0.00
ATOM 978	1HD	ARG A	70	160.346	7.500	7.271	1.00	0.00
ATOM 979	2HD	ARG A	70	160.478	5.820	7.791	1.00	0.00
ATOM 980	HE	ARG A	70	162.667	6.609	6.141	1.00	0.00
ATOM 981	1HH1	ARG A	70	161.410	6.764	9.393	1.00	0.00
ATOM 982	2HH1	ARG A	70	162.971	6.939	10.122	1.00	0.00
ATOM 983	1HH2	ARG A	70	164.722	6.837	7.098	1.00	0.00
ATOM 984	2HH2	ARG A	70	164.851	6.981	8.820	1.00	0.00
ATOM 985	N	TYR A	71	157.438	7.420	3.917	1.00	0.00
ATOM 986	CA	TYR A	71	156.262	8.204	4.273	1.00	0.00
ATOM 987	C	TYR A	71	155.798	7.879	5.689	1.00	0.00
ATOM 988	O	TYR A	71	155.340	8.757	6.421	1.00	0.00
ATOM 989	CB	TYR A	71	155.128	7.942	3.280	1.00	0.00
ATOM 990	CG	TYR A	71	155.340	8.592	1.932	1.00	0.00

ATOM 991	CD1	TYR A	71	155.142	7.880	0.756	1.00	0.00
ATOM 992	CD2	TYR A	71	155.738	9.920	1.834	1.00	0.00
ATOM 993	CE1	TYR A	71	155.336	8.471	-0.478	1.00	0.00
ATOM 994	CE2	TYR A	71	155.933	10.518	0.604	1.00	0.00
ATOM 995	CZ	TYR A	71	155.731	9.790	-0.549	1.00	0.00
ATOM 996	OH	TYR A	71	155.924	10.382	-1.776	1.00	0.00
ATOM 997	H	TYR A	71	157.349	6.451	3.800	1.00	0.00
ATOM 998	HA	TYR A	71	156.534	9.249	4.227	1.00	0.00
ATOM 999	1HB	TYR A	71	155.035	6.879	3.123	1.00	0.00
ATOM 1000	2HB	TYR A	71	154.205	8.323	3.691	1.00	0.00
ATOM 1001	HD1	TYR A	71	154.832	6.846	0.815	1.00	0.00
ATOM 1002	HD2	TYR A	71	155.897	10.489	2.739	1.00	0.00
ATOM 1003	HE1	TYR A	71	155.177	7.899	-1.380	1.00	0.00
ATOM 1004	HE2	TYR A	71	156.243	11.552	0.549	1.00	0.00
ATOM 1005	HH	TYR A	71	156.751	10.868	-1.770	1.00	0.00
ATOM 1006	N	PHE A	72	155.919	6.611	6.069	1.00	0.00
ATOM 1007	CA	PHE A	72	155.513	6.169	7.397	1.00	0.00
ATOM 1008	C	PHE A	72	156.513	5.169	7.968	1.00	0.00
ATOM 1009	O	PHE A	72	157.471	4.783	7.299	1.00	0.00
ATOM 1010	CB	PHE A	72	154.119	5.541	7.343	1.00	0.00
ATOM 1011	CG	PHE A	72	154.009	4.406	6.366	1.00	0.00
ATOM 1012	CD1	PHE A	72	153.735	4.650	5.030	1.00	0.00
ATOM 1013	CD2	PHE A	72	154.181	3.096	6.783	1.00	0.00
ATOM 1014	CE1	PHE A	72	153.633	3.608	4.128	1.00	0.00
ATOM 1015	CE2	PHE A	72	154.081	2.050	5.886	1.00	0.00
ATOM 1016	CZ	PHE A	72	153.806	2.306	4.557	1.00	0.00
ATOM 1017	H	PHE A	72	156.291	5.957	5.441	1.00	0.00
ATOM 1018	HA	PHE A	72	155.483	7.036	8.040	1.00	0.00
ATOM 1019	1HB	PHE A	72	153.865	5.162	8.322	1.00	0.00

ATOM 1020	2HB	PHE A	72	153.401	6.297	7.059	1.00	0.00
ATOM 1021	HD1	PHE A	72	153.599	5.667	4.694	1.00	0.00
ATOM 1022	HD2	PHE A	72	154.396	2.895	7.823	1.00	0.00
ATOM 1023	HE1	PHE A	72	153.418	3.810	3.089	1.00	0.00
ATOM 1024	HE2	PHE A	72	154.217	1.033	6.224	1.00	0.00
ATOM 1025	HZ	PHE A	72	153.728	1.490	3.854	1.00	0.00
ATOM 1026	N	THR A	73	156.282	4.752	9.209	1.00	0.00
ATOM 1027	CA	THR A	73	157.162	3.795	9.870	1.00	0.00
ATOM 1028	C	THR A	73	156.453	2.463	10.088	1.00	0.00
ATOM 1029	O	THR A	73	155.491	2.378	10.851	1.00	0.00
ATOM 1030	CB	THR A	73	157.643	4.355	11.210	1.00	0.00
ATOM 1031	OG1	THR A	73	156.583	5.000	11.894	1.00	0.00
ATOM 1032	CG2	THR A	73	158.773	5.352	11.071	1.00	0.00
ATOM 1033	H	THR A	73	155.502	5.096	9.691	1.00	0.00
ATOM 1034	HA	THR A	73	158.017	3.634	9.230	1.00	0.00
ATOM 1035	HB	THR A	73	157.996	3.538	11.823	1.00	0.00
ATOM 1036	HG1	THR A	73	156.693	4.881	12.840	1.00	0.00
ATOM 1037	1HG2	THR A	73	158.585	6.200	11.713	1.00	0.00
ATOM 1038	2HG2	THR A	73	158.837	5.683	10.046	1.00	0.00
ATOM 1039	3HG2	THR A	73	159.703	4.884	11.357	1.00	0.00
ATOM 1040	N	CYS A	74	156.934	1.425	9.411	1.00	0.00
ATOM 1041	CA	CYS A	74	156.346	0.096	9.531	1.00	0.00
ATOM 1042	C	CYS A	74	157.427	-0.980	9.525	1.00	0.00
ATOM 1043	O	CYS A	74	158.610	-0.684	9.362	1.00	0.00
ATOM 1044	CB	CYS A	74	155.357	-0.152	8.390	1.00	0.00
ATOM 1045	SG	CYS A	74	153.661	0.351	8.762	1.00	0.00
ATOM 1046	H	CYS A	74	157.703	1.556	8.819	1.00	0.00
ATOM 1047	HA	CYS A	74	155.815	0.052	10.470	1.00	0.00
ATOM 1048	1HB	CYS A	74	155.679	0.399	7.519	1.00	0.00

ATOM 1049	2HB	CYS A	74	155.344	-1.206	8.157	1.00	0.00
ATOM 1050	HG	CYS A	74	153.664	1.294	8.942	1.00	0.00
ATOM 1051	N	ALA A	75	157.011	-2.229	9.704	1.00	0.00
ATOM 1052	CA	ALA A	75	157.944	-3.350	9.720	1.00	0.00
ATOM 1053	C	ALA A	75	158.702	-3.452	8.401	1.00	0.00
ATOM 1054	O	ALA A	75	158.480	-2.661	7.484	1.00	0.00
ATOM 1055	CB	ALA A	75	157.205	-4.647	10.008	1.00	0.00
ATOM 1056	H	ALA A	75	156.055	-2.403	9.830	1.00	0.00
ATOM 1057	HA	ALA A	75	158.654	-3.182	10.518	1.00	0.00
ATOM 1058	1HB	ALA A	75	157.023	-5.171	9.081	1.00	0.00
ATOM 1059	2HB	ALA A	75	156.262	-4.426	10.487	1.00	0.00
ATOM 1060	3HB	ALA A	75	157.804	-5.266	10.659	1.00	0.00
ATOM 1061	N	LEU A	76	159.596	-4.431	8.312	1.00	0.00
ATOM 1062	CA	LEU A	76	160.387	-4.637	7.104	1.00	0.00
ATOM 1063	C	LEU A	76	159.716	-5.649	6.180	1.00	0.00
ATOM 1064	O	LEU A	76	159.147	-6.640	6.638	1.00	0.00
ATOM 1065	CB	LEU A	76	161.794	-5.115	7.466	1.00	0.00
ATOM 1066	CG	LEU A	76	162.730	-4.029	7.999	1.00	0.00
ATOM 1067	CD1	LEU A	76	163.737	-4.623	8.971	1.00	0.00
ATOM 1068	CD2	LEU A	76	163.442	-3.330	6.851	1.00	0.00
ATOM 1069	H	LEU A	76	159.727	-5.029	9.076	1.00	0.00
ATOM 1070	HA	LEU A	76	160.459	-3.690	6.589	1.00	0.00
ATOM 1071	1HB	LEU A	76	161.707	-5.887	8.216	1.00	0.00
ATOM 1072	2HB	LEU A	76	162.244	-5.544	6.583	1.00	0.00
ATOM 1073	HG	LEU A	76	162.148	-3.291	8.533	1.00	0.00
ATOM 1074	1HD1	LEU A	76	164.281	-5.419	8.485	1.00	0.00
ATOM 1075	2HD1	LEU A	76	163.217	-5.016	9.833	1.00	0.00
ATOM 1076	3HD1	LEU A	76	164.429	-3.856	9.287	1.00	0.00
ATOM 1077	1HD2	LEU A	76	162.828	-3.375	5.965	1.00	0.00

ATOM 1078	2HD2	LEU A	76	164.385	-3.821	6.660	1.00	0.00
ATOM 1079	3HD2	LEU A	76	163.621	-2.297	7.114	1.00	0.00
ATOM 1080	N	LYS A	77	159.786	-5.390	4.878	1.00	0.00
ATOM 1081	CA	LYS A	77	159.185	-6.279	3.890	1.00	0.00
ATOM 1082	C	LYS A	77	157.676	-6.375	4.090	1.00	0.00
ATOM 1083	O	LYS A	77	157.083	-7.440	3.918	1.00	0.00
ATOM 1084	CB	LYS A	77	159.812	-7.672	3.975	1.00	0.00
ATOM 1085	CG	LYS A	77	161.303	-7.687	3.676	1.00	0.00
ATOM 1086	CD	LYS A	77	161.578	-7.419	2.206	1.00	0.00
ATOM 1087	CE	LYS A	77	162.960	-6.821	1.998	1.00	0.00
ATOM 1088	NZ	LYS A	77	163.955	-7.851	1.590	1.00	0.00
ATOM 1089	H	LYS A	77	160.252	-4.584	4.575	1.00	0.00
ATOM 1090	HA	LYS A	77	159.380	-5.865	2.911	1.00	0.00
ATOM 1091	1HB	LYS A	77	159.663	-8.060	4.973	1.00	0.00
ATOM 1092	2HB	LYS A	77	159.318	-8.321	3.268	1.00	0.00
ATOM 1093	1HG	LYS A	77	161.786	-6.924	4.268	1.00	0.00
ATOM 1094	2HG	LYS A	77	161.701	-8.656	3.938	1.00	0.00
ATOM 1095	1HD	LYS A	77	161.514	-8.349	1.662	1.00	0.00
ATOM 1096	2HD	LYS A	77	160.836	-6.729	1.830	1.00	0.00
ATOM 1097	1HE	LYS A	77	162.900	-6.067	1.227	1.00	0.00
ATOM 1098	2HE	LYS A	77	163.283	-6.365	2.922	1.00	0.00
ATOM 1099	1HZ	LYS A	77	164.769	-7.397	1.128	1.00	0.00
ATOM 1100	2HZ	LYS A	77	163.523	-8.522	0.925	1.00	0.00
ATOM 1101	3HZ	LYS A	77	164.290	-8.374	2.425	1.00	0.00
ATOM 1102	N	LYS A	78	157.060	-5.255	4.456	1.00	0.00
ATOM 1103	CA	LYS A	78	155.619	-5.213	4.681	1.00	0.00
ATOM 1104	C	LYS A	78	155.047	-3.853	4.293	1.00	0.00
ATOM 1105	O	LYS A	78	154.151	-3.333	4.959	1.00	0.00
ATOM 1106	CB	LYS A	78	155.301	-5.516	6.146	1.00	0.00

ATOM 1107	CG	LYS A	78	155.852	-6.848	6.626	1.00	0.00
ATOM 1108	CD	LYS A	78	155.565	-7.071	8.102	1.00	0.00
ATOM 1109	CE	LYS A	78	154.387	-8.009	8.306	1.00	0.00
ATOM 1110	NZ	LYS A	78	153.519	-7.573	9.435	1.00	0.00
ATOM 1111	H	LYS A	78	157.587	-4.437	4.578	1.00	0.00
ATOM 1112	HA	LYS A	78	155.166	-5.971	4.059	1.00	0.00
ATOM 1113	1HB	LYS A	78	155.721	-4.734	6.762	1.00	0.00
ATOM 1114	2HB	LYS A	78	154.228	-5.526	6.275	1.00	0.00
ATOM 1115	1HG	LYS A	78	155.393	-7.643	6.056	1.00	0.00
ATOM 1116	2HG	LYS A	78	156.921	-6.862	6.469	1.00	0.00
ATOM 1117	1HD	LYS A	78	156.439	-7.503	8.567	1.00	0.00
ATOM 1118	2HD	LYS A	78	155.341	-6.121	8.562	1.00	0.00
ATOM 1119	1HE	LYS A	78	153.799	-8.031	7.401	1.00	0.00
ATOM 1120	2HE	LYS A	78	154.763	-9.000	8.513	1.00	0.00
ATOM 1121	1HZ	LYS A	78	154.104	-7.298	10.250	1.00	0.00
ATOM 1122	2HZ	LYS A	78	152.889	-8.348	9.722	1.00	0.00
ATOM 1123	3HZ	LYS A	78	152.940	-6.759	9.147	1.00	0.00
ATOM 1124	N	ALA A	79	155.570	-3.282	3.214	1.00	0.00
ATOM 1125	CA	ALA A	79	155.112	-1.982	2.739	1.00	0.00
ATOM 1126	C	ALA A	79	154.892	-1.996	1.230	1.00	0.00
ATOM 1127	O	ALA A	79	155.848	-1.961	0.454	1.00	0.00
ATOM 1128	CB	ALA A	79	156.109	-0.899	3.119	1.00	0.00
ATOM 1129	H	ALA A	79	156.281	-3.746	2.724	1.00	0.00
ATOM 1130	HA	ALA A	79	154.173	-1.762	3.227	1.00	0.00
ATOM 1131	1HB	ALA A	79	155.578	0.005	3.377	1.00	0.00
ATOM 1132	2HB	ALA A	79	156.767	-0.706	2.285	1.00	0.00
ATOM 1133	3HB	ALA A	79	156.692	-1.229	3.967	1.00	0.00
ATOM 1134	N	LEU A	80	153.630	-2.047	0.820	1.00	0.00
ATOM 1135	CA	LEU A	80	153.285	-2.065	-0.597	1.00	0.00

ATOM 1136	C	LEU A	80	152.294	-0.953	-0.929	1.00	0.00
ATOM 1137	O	LEU A	80	151.145	-0.979	-0.489	1.00	0.00
ATOM 1138	CB	LEU A	80	152.694	-3.423	-0.982	1.00	0.00
ATOM 1139	CG	LEU A	80	152.225	-3.537	-2.434	1.00	0.00
ATOM 1140	CD1	LEU A	80	153.416	-3.646	-3.372	1.00	0.00
ATOM 1141	CD2	LEU A	80	151.301	-4.734	-2.601	1.00	0.00
ATOM 1142	H	LEU A	80	152.912	-2.073	1.487	1.00	0.00
ATOM 1143	HA	LEU A	80	154.191	-1.903	-1.160	1.00	0.00
ATOM 1144	1HB	LEU A	80	153.444	-4.180	-0.806	1.00	0.00
ATOM 1145	2HB	LEU A	80	151.850	-3.621	-0.338	1.00	0.00
ATOM 1146	HG	LEU A	80	151.673	-2.647	-2.697	1.00	0.00
ATOM 1147	1HD1	LEU A	80	153.124	-4.177	-4.265	1.00	0.00
ATOM 1148	2HD1	LEU A	80	154.215	-4.182	-2.880	1.00	0.00
ATOM 1149	3HD1	LEU A	80	153.757	-2.656	-3.637	1.00	0.00
ATOM 1150	1HD2	LEU A	80	151.434	-5.156	-3.587	1.00	0.00
ATOM 1151	2HD2	LEU A	80	150.276	-4.416	-2.480	1.00	0.00
ATOM 1152	3HD2	LEU A	80	151.538	-5.478	-1.856	1.00	0.00
ATOM 1153	N	PHE A	81	152.748	0.022	-1.710	1.00	0.00
ATOM 1154	CA	PHE A	81	151.901	1.143	-2.102	1.00	0.00
ATOM 1155	C	PHE A	81	151.048	0.782	-3.314	1.00	0.00
ATOM 1156	O	PHE A	81	151.438	-0.049	-4.134	1.00	0.00
ATOM 1157	CB	PHE A	81	152.759	2.370	-2.415	1.00	0.00
ATOM 1158	CG	PHE A	81	153.604	2.823	-1.259	1.00	0.00
ATOM 1159	CD1	PHE A	81	154.786	2.169	-0.951	1.00	0.00
ATOM 1160	CD2	PHE A	81	153.216	3.902	-0.480	1.00	0.00
ATOM 1161	CE1	PHE A	81	155.566	2.583	0.112	1.00	0.00
ATOM 1162	CE2	PHE A	81	153.993	4.320	0.584	1.00	0.00
ATOM 1163	CZ	PHE A	81	155.169	3.660	0.881	1.00	0.00
ATOM 1164	H	PHE A	81	153.673	-0.013	-2.030	1.00	0.00

ATOM 1165	HA	PHE A	81	151.249	1.371	-1.273	1.00	0.00
ATOM 1166	1HB	PHE A	81	153.418	2.141	-3.239	1.00	0.00
ATOM 1167	2HB	PHE A	81	152.112	3.190	-2.696	1.00	0.00
ATOM 1168	HD1	PHE A	81	155.098	1.328	-1.552	1.00	0.00
ATOM 1169	HD2	PHE A	81	152.297	4.418	-0.711	1.00	0.00
ATOM 1170	HE1	PHE A	81	156.485	2.064	0.342	1.00	0.00
ATOM 1171	HE2	PHE A	81	153.679	5.162	1.184	1.00	0.00
ATOM 1172	HZ	PHE A	81	155.777	3.984	1.712	1.00	0.00
ATOM 1173	N	VAL A	82	149.883	1.411	-3.419	1.00	0.00
ATOM 1174	CA	VAL A	82	148.974	1.155	-4.530	1.00	0.00
ATOM 1175	C	VAL A	82	148.048	2.342	-4.768	1.00	0.00
ATOM 1176	O	VAL A	82	147.948	3.242	-3.933	1.00	0.00
ATOM 1177	CB	VAL A	82	148.123	-0.103	-4.283	1.00	0.00
ATOM 1178	CG1	VAL A	82	148.984	-1.355	-4.359	1.00	0.00
ATOM 1179	CG2	VAL A	82	147.417	-0.014	-2.939	1.00	0.00
ATOM 1180	H	VAL A	82	149.627	2.063	-2.734	1.00	0.00
ATOM 1181	HA	VAL A	82	149.569	0.993	-5.418	1.00	0.00
ATOM 1182	HB	VAL A	82	147.371	-0.164	-5.056	1.00	0.00
ATOM 1183	1HG1	VAL A	82	148.356	-2.230	-4.279	1.00	0.00
ATOM 1184	2HG1	VAL A	82	149.699	-1.350	-3.550	1.00	0.00
ATOM 1185	3HG1	VAL A	82	149.507	-1.374	-5.303	1.00	0.00
ATOM 1186	1HG2	VAL A	82	146.420	-0.420	-3.027	1.00	0.00
ATOM 1187	2HG2	VAL A	82	147.358	1.020	-2.631	1.00	0.00
ATOM 1188	3HG2	VAL A	82	147.971	-0.577	-2.202	1.00	0.00
ATOM 1189	N	LYS A	83	147.371	2.339	-5.912	1.00	0.00
ATOM 1190	CA	LYS A	83	146.452	3.416	-6.259	1.00	0.00
ATOM 1191	C	LYS A	83	145.229	3.405	-5.347	1.00	0.00
ATOM 1192	O	LYS A	83	144.472	2.436	-5.320	1.00	0.00
ATOM 1193	CB	LYS A	83	146.014	3.290	-7.719	1.00	0.00

ATOM 1194	CG	LYS A	83	147.174	3.228	-8.700	1.00	0.00
ATOM 1195	CD	LYS A	83	146.698	2.909	-10.108	1.00	0.00
ATOM 1196	CE	LYS A	83	147.699	3.373	-11.153	1.00	0.00
ATOM 1197	NZ	LYS A	83	148.688	2.311	-11.484	1.00	0.00
ATOM 1198	H	LYS A	83	147.493	1.594	-6.537	1.00	0.00
ATOM 1199	HA	LYS A	83	146.973	4.352	-6.129	1.00	0.00
ATOM 1200	1HB	LYS A	83	145.428	2.389	-7.831	1.00	0.00
ATOM 1201	2HB	LYS A	83	145.400	4.141	-7.974	1.00	0.00
ATOM 1202	1HG	LYS A	83	147.675	4.185	-8.709	1.00	0.00
ATOM 1203	2HG	LYS A	83	147.863	2.461	-8.379	1.00	0.00
ATOM 1204	1HD	LYS A	83	146.565	1.841	-10.198	1.00	0.00
ATOM 1205	2HD	LYS A	83	145.754	3.406	-10.279	1.00	0.00
ATOM 1206	1HE	LYS A	83	147.163	3.644	-12.051	1.00	0.00
ATOM 1207	2HE	LYS A	83	148.223	4.236	-10.772	1.00	0.00
ATOM 1208	1HZ	LYS A	83	149.555	2.443	-10.925	1.00	0.00
ATOM 1209	2HZ	LYS A	83	148.932	2.351	-12.494	1.00	0.00
ATOM 1210	3HZ	LYS A	83	148.291	1.373	-11.272	1.00	0.00
ATOM 1211	N	LEU A	84	145.046	4.491	-4.604	1.00	0.00
ATOM 1212	CA	LEU A	84	143.917	4.611	-3.690	1.00	0.00
ATOM 1213	C	LEU A	84	142.593	4.485	-4.439	1.00	0.00
ATOM 1214	O	LEU A	84	141.616	3.960	-3.906	1.00	0.00
ATOM 1215	CB	LEU A	84	143.976	5.952	-2.954	1.00	0.00
ATOM 1216	CG	LEU A	84	142.795	6.237	-2.026	1.00	0.00
ATOM 1217	CD1	LEU A	84	143.027	5.612	-0.659	1.00	0.00
ATOM 1218	CD2	LEU A	84	142.568	7.736	-1.898	1.00	0.00
ATOM 1219	H	LEU A	84	145.685	5.230	-4.673	1.00	0.00
ATOM 1220	HA	LEU A	84	143.987	3.812	-2.969	1.00	0.00
ATOM 1221	1HB	LEU A	84	144.883	5.976	-2.368	1.00	0.00
ATOM 1222	2HB	LEU A	84	144.024	6.740	-3.691	1.00	0.00

ATOM 1223	HG	LEU A	84	141.900	5.798	-2.445	1.00	0.00
ATOM 1224	1HD1	LEU A	84	142.278	5.971	0.033	1.00	0.00
ATOM 1225	2HD1	LEU A	84	144.009	5.886	-0.300	1.00	0.00
ATOM 1226	3HD1	LEU A	84	142.959	4.538	-0.737	1.00	0.00
ATOM 1227	1HD2	LEU A	84	142.571	8.185	-2.880	1.00	0.00
ATOM 1228	2HD2	LEU A	84	143.357	8.169	-1.301	1.00	0.00
ATOM 1229	3HD2	LEU A	84	141.616	7.917	-1.422	1.00	0.00
ATOM 1230	N	LYS A	85	142.571	4.970	-5.676	1.00	0.00
ATOM 1231	CA	LYS A	85	141.367	4.911	-6.496	1.00	0.00
ATOM 1232	C	LYS A	85	140.977	3.466	-6.792	1.00	0.00
ATOM 1233	O	LYS A	85	139.805	3.166	-7.025	1.00	0.00
ATOM 1234	CB	LYS A	85	141.580	5.672	-7.806	1.00	0.00
ATOM 1235	CG	LYS A	85	142.757	5.163	-8.623	1.00	0.00
ATOM 1236	CD	LYS A	85	142.949	5.979	-9.891	1.00	0.00
ATOM 1237	CE	LYS A	85	144.423	6.163	-10.218	1.00	0.00
ATOM 1238	NZ	LYS A	85	144.666	6.202	-11.685	1.00	0.00
ATOM 1239	H	LYS A	85	143.382	5.377	-6.045	1.00	0.00
ATOM 1240	HA	LYS A	85	140.567	5.381	-5.944	1.00	0.00
ATOM 1241	1HB	LYS A	85	140.688	5.586	-8.409	1.00	0.00
ATOM 1242	2HB	LYS A	85	141.751	6.714	-7.580	1.00	0.00
ATOM 1243	1HG	LYS A	85	143.654	5.230	-8.025	1.00	0.00
ATOM 1244	2HG	LYS A	85	142.577	4.132	-8.891	1.00	0.00
ATOM 1245	1HD	LYS A	85	142.470	5.466	-10.712	1.00	0.00
ATOM 1246	2HD	LYS A	85	142.496	6.949	-9.756	1.00	0.00
ATOM 1247	1HE	LYS A	85	144.761	7.090	-9.781	1.00	0.00
ATOM 1248	2HE	LYS A	85	144.978	5.341	-9.790	1.00	0.00
ATOM 1249	1HZ	LYS A	85	145.502	6.784	-11.894	1.00	0.00
ATOM 1250	2HZ	LYS A	85	143.843	6.608	-12.174	1.00	0.00
ATOM 1251	3HZ	LYS A	85	144.828	5.240	-12.047	1.00	0.00

ATOM 1252	N	SER A	86	141.963	2.574	-6.781	1.00	0.00
ATOM 1253	CA	SER A	86	141.717	1.161	-7.048	1.00	0.00
ATOM 1254	C	SER A	86	141.727	0.352	-5.755	1.00	0.00
ATOM 1255	O	SER A	86	142.103	-0.820	-5.748	1.00	0.00
ATOM 1256	CB	SER A	86	142.770	0.614	-8.013	1.00	0.00
ATOM 1257	OG	SER A	86	142.492	1.004	-9.347	1.00	0.00
ATOM 1258	H	SER A	86	142.876	2.872	-6.589	1.00	0.00
ATOM 1259	HA	SER A	86	140.744	1.075	-7.505	1.00	0.00
ATOM 1260	1HB	SER A	86	143.742	0.994	-7.737	1.00	0.00
ATOM 1261	2HB	SER A	86	142.777	-0.465	-7.960	1.00	0.00
ATOM 1262	HG	SER A	86	143.160	0.640	-9.932	1.00	0.00
ATOM 1263	N	CYS A	87	141.314	0.986	-4.662	1.00	0.00
ATOM 1264	CA	CYS A	87	141.274	0.323	-3.363	1.00	0.00
ATOM 1265	C	CYS A	87	139.839	0.184	-2.866	1.00	0.00
ATOM 1266	O	CYS A	87	139.033	1.103	-3.005	1.00	0.00
ATOM 1267	CB	CYS A	87	142.106	1.104	-2.343	1.00	0.00
ATOM 1268	SG	CYS A	87	143.879	0.758	-2.417	1.00	0.00
ATOM 1269	H	CYS A	87	141.026	1.920	-4.730	1.00	0.00
ATOM 1270	HA	CYS A	87	141.699	-0.663	-3.480	1.00	0.00
ATOM 1271	1HB	CYS A	87	141.971	2.161	-2.515	1.00	0.00
ATOM 1272	2HB	CYS A	87	141.763	0.860	-1.348	1.00	0.00
ATOM 1273	HG	CYS A	87	144.316	1.308	-1.762	1.00	0.00
ATOM 1274	N	ARG A	88	139.529	-0.971	-2.288	1.00	0.00
ATOM 1275	CA	ARG A	88	138.189	-1.230	-1.771	1.00	0.00
ATOM 1276	C	ARG A	88	138.203	-1.338	-0.247	1.00	0.00
ATOM 1277	O	ARG A	88	139.164	-1.838	0.338	1.00	0.00
ATOM 1278	CB	ARG A	88	137.626	-2.516	-2.378	1.00	0.00
ATOM 1279	CG	ARG A	88	136.880	-2.295	-3.684	1.00	0.00
ATOM 1280	CD	ARG A	88	135.572	-3.069	-3.717	1.00	0.00

ATOM 1281	NE	ARG A	88	134.521	-2.338	-4.422	1.00	0.00
ATOM 1282	CZ	ARG A	88	134.443	-2.247	-5.748	1.00	0.00
ATOM 1283	NH1	ARG A	88	135.349	-2.838	-6.516	1.00	0.00
ATOM 1284	NH2	ARG A	88	133.454	-1.563	-6.307	1.00	0.00
ATOM 1285	H	ARG A	88	140.215	-1.666	-2.207	1.00	0.00
ATOM 1286	HA	ARG A	88	137.559	-0.402	-2.056	1.00	0.00
ATOM 1287	1HB	ARG A	88	138.441	-3.200	-2.564	1.00	0.00
ATOM 1288	2HB	ARG A	88	136.945	-2.966	-1.670	1.00	0.00
ATOM 1289	1HG	ARG A	88	136.667	-1.242	-3.792	1.00	0.00
ATOM 1290	2HG	ARG A	88	137.503	-2.624	-4.502	1.00	0.00
ATOM 1291	1HD	ARG A	88	135.738	-4.011	-4.216	1.00	0.00
ATOM 1292	2HD	ARG A	88	135.251	-3.251	-2.702	1.00	0.00
ATOM 1293	HE	ARG A	88	133.838	-1.891	-3.880	1.00	0.00
ATOM 1294	1HH1	ARG A	88	136.097	-3.355	-6.101	1.00	0.00
ATOM 1295	2HH1	ARG A	88	135.283	-2.766	-7.511	1.00	0.00
ATOM 1296	1HH2	ARG A	88	132.768	-1.116	-5.732	1.00	0.00
ATOM 1297	2HH2	ARG A	88	133.394	-1.495	-7.303	1.00	0.00
ATOM 1298	N	PRO A	89	137.132	-0.869	0.417	1.00	0.00
ATOM 1299	CA	PRO A	89	137.029	-0.917	1.879	1.00	0.00
ATOM 1300	C	PRO A	89	137.248	-2.322	2.429	1.00	0.00
ATOM 1301	O	PRO A	89	136.580	-3.271	2.017	1.00	0.00
ATOM 1302	CB	PRO A	89	135.596	-0.455	2.154	1.00	0.00
ATOM 1303	CG	PRO A	89	135.224	0.361	0.965	1.00	0.00
ATOM 1304	CD	PRO A	89	135.941	-0.257	-0.201	1.00	0.00
ATOM 1305	HA	PRO A	89	137.725	-0.237	2.347	1.00	0.00
ATOM 1306	1HB	PRO A	89	134.952	-1.316	2.260	1.00	0.00
ATOM 1307	2HB	PRO A	89	135.571	0.134	3.059	1.00	0.00
ATOM 1308	1HG	PRO A	89	134.155	0.323	0.812	1.00	0.00
ATOM 1309	2HG	PRO A	89	135.547	1.382	1.104	1.00	0.00

ATOM 1310	IHD	PRO A	89	135.322	-1.007	-0.671	1.00	0.00
ATOM 1311	2HD	PRO A	89	136.225	0.501	-0.915	1.00	0.00
ATOM 1312	N	ASP A	90	138.186	-2.448	3.360	1.00	0.00
ATOM 1313	CA	ASP A	90	138.492	-3.738	3.967	1.00	0.00
ATOM 1314	C	ASP A	90	137.860	-3.845	5.352	1.00	0.00
ATOM 1315	O	ASP A	90	138.002	-2.945	6.180	1.00	0.00
ATOM 1316	CB	ASP A	90	140.007	-3.930	4.071	1.00	0.00
ATOM 1317	CG	ASP A	90	140.412	-5.387	3.980	1.00	0.00
ATOM 1318	OD1	ASP A	90	139.635	-6.185	3.415	1.00	0.00
ATOM 1319	OD2	ASP A	90	141.507	-5.731	4.473	1.00	0.00
ATOM 1320	H	ASP A	90	138.684	-1.654	3.648	1.00	0.00
ATOM 1321	HA	ASP A	90	138.080	-4.510	3.335	1.00	0.00
ATOM 1322	IHB	ASP A	90	140.488	-3.391	3.269	1.00	0.00
ATOM 1323	2HB	ASP A	90	140.348	-3.539	5.017	1.00	0.00
ATOM 1324	N	SER A	91	137.162	-4.947	5.597	1.00	0.00
ATOM 1325	CA	SER A	91	136.510	-5.164	6.883	1.00	0.00
ATOM 1326	C	SER A	91	137.456	-5.844	7.868	1.00	0.00
ATOM 1327	O	SER A	91	137.984	-5.200	8.773	1.00	0.00
ATOM 1328	CB	SER A	91	135.238	-5.998	6.703	1.00	0.00
ATOM 1329	OG	SER A	91	134.270	-5.672	7.685	1.00	0.00
ATOM 1330	H	SER A	91	137.082	-5.630	4.898	1.00	0.00
ATOM 1331	HA	SER A	91	136.238	-4.197	7.280	1.00	0.00
ATOM 1332	IHB	SER A	91	134.819	-5.806	5.727	1.00	0.00
ATOM 1333	2HB	SER A	91	135.480	-7.047	6.789	1.00	0.00
ATOM 1334	HG	SER A	91	133.431	-5.484	7.259	1.00	0.00
ATOM 1335	N	ARG A	92	137.670	-7.146	7.683	1.00	0.00
ATOM 1336	CA	ARG A	92	138.557	-7.915	8.554	1.00	0.00
ATOM 1337	C	ARG A	92	138.189	-7.730	10.027	1.00	0.00
ATOM 1338	O	ARG A	92	137.454	-8.536	10.597	1.00	0.00

ATOM 1339	CB	ARG A	92	140.015	-7.514	8.318	1.00	0.00
ATOM 1340	CG	ARG A	92	140.706	-8.337	7.244	1.00	0.00
ATOM 1341	CD	ARG A	92	140.193	-7.986	5.858	1.00	0.00
ATOM 1342	NE	ARG A	92	139.038	-8.796	5.479	1.00	0.00
ATOM 1343	CZ	ARG A	92	139.081	-10.115	5.305	1.00	0.00
ATOM 1344	NH1	ARG A	92	140.220	-10.777	5.472	1.00	0.00
ATOM 1345	NH2	ARG A	92	137.983	-10.774	4.961	1.00	0.00
ATOM 1346	H	ARG A	92	137.224	-7.602	6.940	1.00	0.00
ATOM 1347	HA	ARG A	92	138.439	-8.958	8.300	1.00	0.00
ATOM 1348	1HB	ARG A	92	140.047	-6.475	8.021	1.00	0.00
ATOM 1349	2HB	ARG A	92	140.563	-7.632	9.241	1.00	0.00
ATOM 1350	1HG	ARG A	92	141.768	-8.144	7.283	1.00	0.00
ATOM 1351	2HG	ARG A	92	140.522	-9.384	7.433	1.00	0.00
ATOM 1352	1HD	ARG A	92	139.909	-6.945	5.846	1.00	0.00
ATOM 1353	2HD	ARG A	92	140.986	-8.151	5.142	1.00	0.00
ATOM 1354	HE	ARG A	92	138.184	-8.333	5.350	1.00	0.00
ATOM 1355	1HH1	ARG A	92	141.051	-10.287	5.731	1.00	0.00
ATOM 1356	2HH1	ARG A	92	140.244	-11.769	5.340	1.00	0.00
ATOM 1357	1HH2	ARG A	92	137.123	-10.281	4.833	1.00	0.00
ATOM 1358	2HH2	ARG A	92	138.015	-11.765	4.829	1.00	0.00
ATOM 1359	N	PHE A	93	138.703	-6.665	10.638	1.00	0.00
ATOM 1360	CA	PHE A	93	138.428	-6.378	12.040	1.00	0.00
ATOM 1361	C	PHE A	93	137.150	-5.556	12.187	1.00	0.00
ATOM 1362	O	PHE A	93	137.152	-4.489	12.803	1.00	0.00
ATOM 1363	CB	PHE A	93	139.607	-5.628	12.663	1.00	0.00
ATOM 1364	CG	PHE A	93	140.887	-6.415	12.657	1.00	0.00
ATOM 1365	CD1	PHE A	93	141.605	-6.585	11.483	1.00	0.00
ATOM 1366	CD2	PHE A	93	141.372	-6.984	13.823	1.00	0.00
ATOM 1367	CE1	PHE A	93	142.783	-7.309	11.474	1.00	0.00

ATOM 1368	CE2	PHE A	93	142.549	-7.708	13.820	1.00	0.00
ATOM 1369	CZ	PHE A	93	143.255	-7.871	12.644	1.00	0.00
ATOM 1370	H	PHE A	93	139.282	-6.057	10.132	1.00	0.00
ATOM 1371	HA	PHE A	93	138.299	-7.319	12.553	1.00	0.00
ATOM 1372	1HB	PHE A	93	139.776	-4.715	12.110	1.00	0.00
ATOM 1373	2HB	PHE A	93	139.370	-5.385	13.689	1.00	0.00
ATOM 1374	HD1	PHE A	93	141.236	-6.145	10.568	1.00	0.00
ATOM 1375	HD2	PHE A	93	140.821	-6.857	14.743	1.00	0.00
ATOM 1376	HE1	PHE A	93	143.333	-7.435	10.553	1.00	0.00
ATOM 1377	HE2	PHE A	93	142.917	-8.146	14.736	1.00	0.00
ATOM 1378	HZ	PHE A	93	144.175	-8.437	12.639	1.00	0.00
ATOM 1379	N	ALA A	94	136.059	-6.059	11.619	1.00	0.00
ATOM 1380	CA	ALA A	94	134.776	-5.371	11.687	1.00	0.00
ATOM 1381	C	ALA A	94	133.976	-5.822	12.905	1.00	0.00
ATOM 1382	O	ALA A	94	133.857	-7.017	13.175	1.00	0.00
ATOM 1383	CB	ALA A	94	133.981	-5.610	10.413	1.00	0.00
ATOM 1384	H	ALA A	94	136.119	-6.913	11.142	1.00	0.00
ATOM 1385	HA	ALA A	94	134.970	-4.312	11.769	1.00	0.00
ATOM 1386	1HB	ALA A	94	132.932	-5.695	10.653	1.00	0.00
ATOM 1387	2HB	ALA A	94	134.318	-6.523	9.944	1.00	0.00
ATOM 1388	3HB	ALA A	94	134.130	-4.781	9.735	1.00	0.00
ATOM 1389	N	SER A	95	133.429	-4.857	13.636	1.00	0.00
ATOM 1390	CA	SER A	95	132.639	-5.153	14.825	1.00	0.00
ATOM 1391	C	SER A	95	131.161	-5.304	14.474	1.00	0.00
ATOM 1392	O	SER A	95	130.510	-4.343	14.065	1.00	0.00
ATOM 1393	CB	SER A	95	132.817	-4.050	15.870	1.00	0.00
ATOM 1394	OG	SER A	95	133.898	-4.340	16.739	1.00	0.00
ATOM 1395	H	SER A	95	133.559	-3.922	13.370	1.00	0.00
ATOM 1396	HA	SER A	95	132.996	-6.086	15.236	1.00	0.00

ATOM 1397	1HB	SER A	95	133.015	-3.113	15.372	1.00	0.00
ATOM 1398	2HB	SER A	95	131.914	-3.962	16.455	1.00	0.00
ATOM 1399	HG	SER A	95	133.792	-5.224	17.098	1.00	0.00
ATOM 1400	N	LEU A	96	130.641	-6.514	14.639	1.00	0.00
ATOM 1401	CA	LEU A	96	129.240	-6.792	14.341	1.00	0.00
ATOM 1402	C	LEU A	96	128.444	-7.002	15.624	1.00	0.00
ATOM 1403	O	LEU A	96	128.799	-7.835	16.458	1.00	0.00
ATOM 1404	CB	LEU A	96	129.123	-8.027	13.446	1.00	0.00
ATOM 1405	CG	LEU A	96	127.885	-8.062	12.548	1.00	0.00
ATOM 1406	CD1	LEU A	96	128.176	-8.830	11.268	1.00	0.00
ATOM 1407	CD2	LEU A	96	126.708	-8.679	13.288	1.00	0.00
ATOM 1408	H	LEU A	96	131.211	-7.239	14.970	1.00	0.00
ATOM 1409	HA	LEU A	96	128.838	-5.938	13.816	1.00	0.00
ATOM 1410	1HB	LEU A	96	130.000	-8.075	12.817	1.00	0.00
ATOM 1411	2HB	LEU A	96	129.105	-8.903	14.077	1.00	0.00
ATOM 1412	HG	LEU A	96	127.617	-7.050	12.277	1.00	0.00
ATOM 1413	1HD1	LEU A	96	128.648	-9.770	11.512	1.00	0.00
ATOM 1414	2HD1	LEU A	96	128.834	-8.248	10.641	1.00	0.00
ATOM 1415	3HD1	LEU A	96	127.251	-9.018	10.744	1.00	0.00
ATOM 1416	1HD2	LEU A	96	126.780	-8.444	14.340	1.00	0.00
ATOM 1417	2HD2	LEU A	96	126.724	-9.751	13.157	1.00	0.00
ATOM 1418	3HD2	LEU A	96	125.786	-8.281	12.893	1.00	0.00
ATOM 1419	N	GLN A	97	127.365	-6.241	15.777	1.00	0.00
ATOM 1420	CA	GLN A	97	126.519	-6.343	16.961	1.00	0.00
ATOM 1421	C	GLN A	97	125.175	-6.983	16.615	1.00	0.00
ATOM 1422	O	GLN A	97	124.550	-6.626	15.616	1.00	0.00
ATOM 1423	CB	GLN A	97	126.298	-4.958	17.572	1.00	0.00
ATOM 1424	CG	GLN A	97	127.318	-4.593	18.638	1.00	0.00
ATOM 1425	CD	GLN A	97	128.360	-3.614	18.137	1.00	0.00

ATOM 1426	OE1	GLN A	97	128.385	-2.453	18.544	1.00	0.00
ATOM 1427	NE2	GLN A	97	129.229	-4.079	17.245	1.00	0.00
ATOM 1428	H	GLN A	97	127.134	-5.593	15.078	1.00	0.00
ATOM 1429	HA	GLN A	97	127.031	-6.965	17.678	1.00	0.00
ATOM 1430	1HB	GLN A	97	126.350	-4.219	16.787	1.00	0.00
ATOM 1431	2HB	GLN A	97	125.315	-4.928	18.019	1.00	0.00
ATOM 1432	1HG	GLN A	97	126.801	-4.148	19.475	1.00	0.00
ATOM 1433	2HG	GLN A	97	127.818	-5.494	18.963	1.00	0.00
ATOM 1434	1HE2	GLN A	97	129.148	-5.014	16.965	1.00	0.00
ATOM 1435	2HE2	GLN A	97	129.913	-3.466	16.903	1.00	0.00
ATOM 1436	N	PRO A	98	124.707	-7.939	17.439	1.00	0.00
ATOM 1437	CA	PRO A	98	123.429	-8.622	17.208	1.00	0.00
ATOM 1438	C	PRO A	98	122.272	-7.643	17.039	1.00	0.00
ATOM 1439	O	PRO A	98	121.635	-7.597	15.986	1.00	0.00
ATOM 1440	CB	PRO A	98	123.236	-9.462	18.473	1.00	0.00
ATOM 1441	CG	PRO A	98	124.612	-9.673	19.002	1.00	0.00
ATOM 1442	CD	PRO A	98	125.383	-8.431	18.655	1.00	0.00
ATOM 1443	HA	PRO A	98	123.478	-9.270	16.345	1.00	0.00
ATOM 1444	1HB	PRO A	98	122.621	-8.920	19.177	1.00	0.00
ATOM 1445	2HB	PRO A	98	122.764	-10.398	18.218	1.00	0.00
ATOM 1446	1HG	PRO A	98	124.578	-9.806	20.073	1.00	0.00
ATOM 1447	2HG	PRO A	98	125.059	-10.535	18.530	1.00	0.00
ATOM 1448	1HD	PRO A	98	125.314	-7.707	19.454	1.00	0.00
ATOM 1449	2HD	PRO A	98	126.416	-8.672	18.451	1.00	0.00
ATOM 1450	N	SER A	99	122.007	-6.862	18.082	1.00	0.00
ATOM 1451	CA	SER A	99	120.927	-5.882	18.055	1.00	0.00
ATOM 1452	C	SER A	99	119.571	-6.566	17.892	1.00	0.00
ATOM 1453	O	SER A	99	118.839	-6.748	18.864	1.00	0.00
ATOM 1454	CB	SER A	99	121.148	-4.874	16.924	1.00	0.00

ATOM 1455	OG	SER A	99	120.024	-4.024	16.771	1.00	0.00
ATOM 1456	H	SER A	99	122.552	-6.947	18.892	1.00	0.00
ATOM 1457	HA	SER A	99	120.937	-5.355	18.998	1.00	0.00
ATOM 1458	1HB	SER A	99	122.013	-4.268	17.148	1.00	0.00
ATOM 1459	2HB	SER A	99	121.311	-5.405	15.998	1.00	0.00
ATOM 1460	HG	SER A	99	120.000	-3.392	17.492	1.00	0.00
ATOM 1461	N	GLY A	100	119.245	-6.942	16.660	1.00	0.00
ATOM 1462	CA	GLY A	100	117.979	-7.601	16.396	1.00	0.00
ATOM 1463	C	GLY A	100	117.069	-6.778	15.502	1.00	0.00
ATOM 1464	O	GLY A	100	117.227	-6.787	14.281	1.00	0.00
ATOM 1465	H	GLY A	100	119.868	-6.771	15.924	1.00	0.00
ATOM 1466	1HA	GLY A	100	118.174	-8.549	15.917	1.00	0.00
ATOM 1467	2HA	GLY A	100	117.477	-7.782	17.335	1.00	0.00
ATOM 1468	N	PRO A	101	116.100	-6.048	16.082	1.00	0.00
ATOM 1469	CA	PRO A	101	115.170	-5.218	15.312	1.00	0.00
ATOM 1470	C	PRO A	101	115.837	-3.968	14.751	1.00	0.00
ATOM 1471	O	PRO A	101	116.518	-3.238	15.473	1.00	0.00
ATOM 1472	CB	PRO A	101	114.103	-4.840	16.339	1.00	0.00
ATOM 1473	CG	PRO A	101	114.812	-4.878	17.648	1.00	0.00
ATOM 1474	CD	PRO A	101	115.837	-5.974	17.532	1.00	0.00
ATOM 1475	HA	PRO A	101	114.716	-5.776	14.505	1.00	0.00
ATOM 1476	1HB	PRO A	101	113.723	-3.852	16.122	1.00	0.00
ATOM 1477	2HB	PRO A	101	113.296	-5.558	16.306	1.00	0.00
ATOM 1478	1HG	PRO A	101	115.295	-3.931	17.831	1.00	0.00
ATOM 1479	2HG	PRO A	101	114.111	-5.102	18.439	1.00	0.00
ATOM 1480	1HD	PRO A	101	116.733	-5.710	18.074	1.00	0.00
ATOM 1481	2HD	PRO A	101	115.434	-6.906	17.898	1.00	0.00
ATOM 1482	N	SER A	102	115.637	-3.724	13.460	1.00	0.00
ATOM 1483	CA	SER A	102	116.219	-2.560	12.802	1.00	0.00

ATOM 1484	C	SER A 102	115.766	-2.472	11.348	1.00	0.00
ATOM 1485	O	SER A 102	115.165	-1.480	10.935	1.00	0.00
ATOM 1486	CB	SER A 102	117.747	-2.622	12.869	1.00	0.00
ATOM 1487	OG	SER A 102	118.251	-3.671	12.060	1.00	0.00
ATOM 1488	H	SER A 102	115.085	-4.342	12.937	1.00	0.00
ATOM 1489	HA	SER A 102	115.881	-1.679	13.327	1.00	0.00
ATOM 1490	1HB	SER A 102	118.159	-1.686	12.520	1.00	0.00
ATOM 1491	2HB	SER A 102	118.054	-2.791	13.890	1.00	0.00
ATOM 1492	HG	SER A 102	119.076	-3.395	11.655	1.00	0.00
ATOM 1493	N	SER A 103	116.056	-3.515	10.579	1.00	0.00
ATOM 1494	CA	SER A 103	115.677	-3.556	9.171	1.00	0.00
ATOM 1495	C	SER A 103	114.558	-4.565	8.937	1.00	0.00
ATOM 1496	O	SER A 103	113.425	-4.192	8.639	1.00	0.00
ATOM 1497	CB	SER A 103	116.888	-3.908	8.306	1.00	0.00
ATOM 1498	OG	SER A 103	116.525	-4.019	6.941	1.00	0.00
ATOM 1499	H	SER A 103	116.537	-4.276	10.966	1.00	0.00
ATOM 1500	HA	SER A 103	115.323	-2.573	8.895	1.00	0.00
ATOM 1501	1HB	SER A 103	117.637	-3.137	8.404	1.00	0.00
ATOM 1502	2HB	SER A 103	117.299	-4.852	8.634	1.00	0.00
ATOM 1503	HG	SER A 103	116.882	-3.273	6.452	1.00	0.00
ATOM 1504	N	GLY A 104	114.886	-5.846	9.074	1.00	0.00
ATOM 1505	CA	GLY A 104	113.897	-6.889	8.874	1.00	0.00
ATOM 1506	C	GLY A 104	113.297	-7.376	10.178	1.00	0.00
ATOM 1507	O	GLY A 104	113.708	-8.455	10.654	1.00	0.00
ATOM 1508	OXT	GLY A 104	112.415	-6.679	10.723	1.00	0.00
ATOM 1509	H	GLY A 104	115.806	-6.084	9.313	1.00	0.00
ATOM 1510	1HA	GLY A 104	113.106	-6.505	8.247	1.00	0.00
ATOM 1511	2HA	GLY A 104	114.367	-7.723	8.373	1.00	0.00
TER 1512		GLY A 104					

ENDMDL

END

【0 1 1 8】

このように、タンパク質全長からコンピュータによりタンパク質の構造・機能を有する構成要素（ドメイン）を予測して、予測した領域を中心にN端、C端へ伸ばしたりカットしたりしたコンストラクトを各種作成し、これらのタンパク質を発現させ、実際に取得したドメインタンパク質をSDS-PAGEでその発現を確認した。さらに構造を有するか否かはNMRを用いてHSQC測定を行い個々のドメイン全てについて確認した。したがって、実際に構造をもつ（フォールドする）ドメインのタンパク質配列上の位置を正確に決定できたことが確認された。また、このような分子量の小さいドメインタンパク質を用いることで、容易に立体構造解析を行うことができるようになったことが確認された。

【0 1 1 9】

v i) インシリコスクリーニング

<データベース最適化>

低分子化合物データベースの対象データベースとしてSPECS社から提供されている低分子化合物カタログデータベースを用いた。1 エントリーに複数分子を含むものは1 分子ごとに分割した上で、重複を除いたライブラリをスクリーニングの母集団として用いた。ここには152323分子含まれている。

”Lipinski’s Rule of 5”に基づき、低分子化合物データベースについてのターゲット非依存最適化を行った。ここで用いた絞り込み条件は以下の通りである。

1. 分子量100以上500以下
2. 計算LogP値(o/w)5以下 (XLOGP-1アルゴリズム使用)
3. 水素結合アクセプター原子数（低分子化合物に含まれるNとOの数）10以下
4. 水素結合ドナー原子数（低分子化合物に含まれるNHとOHの数）5以下

更にドッキング計算を適切に行うために以下のような分子を除外している。

1. 回転可能な単結合数が21以上のもの
2. ラジカルを含むもの
3. H, C, N, O, F, S, P, Cl, Br, I以外の元素を含むもの

絞り込み後の分子数は103773となった。

【0120】

<結合部位予測>

(1) 立体構造類似性検索

本発明におけるCAP-Gly様タンパク質ドメインはSH3ドメインと構造類似性を持つことが立体構造類似性検索により示唆されたため、距離行列比較[Holm L, Sander C, J. Mol. Biol. (1993), 233:123-138]を行い、1A0N, 1BBZ, 1CKA及び1GBQ(いずれもPDBコード)との立体構造類似性検索を行なった。この立体構造類似性検索には立体構造座標表1を用いた。

(2) 結合部位予測

多少のギャップはみられるが、N末端及びC末端側のフラグメントを除くと、ターゲットとSH3ドメインとの間には構造類似性があることが示された。一方、SH3ドメインを含む構造は、共通する疎水性ポケット近傍でペプチドと結合している。このポケットは本発明におけるCAP-Gly様タンパク質ドメインとも共通しているため、この部位近傍をスクリーニング対象として選択した。

【0121】

<スクリーニング>

(1) 一次スクリーニング

Dock 4.0を用いて、結合サイトについて、先に最適化を行った低分子化合物ライブラリ全体に対してドッキングを行った。Dockのenergy scoreに基づいて低分子化合物をランク付けした。

(2) 二次スクリーニング

1次スクリーニングの結果得られた上位10619分子について、AutoDock 3.0.5を用いて、詳細なドッキングを行った。ドッキングの際に使用したスフィアから4Å以内にある化合物への絞り込み、および計算が異常終了した分子を除去した結果、最終的に9938分子についてドッキング構造を得た。さらに得られた化合物のうち、 ΔG (結合自由エネルギー変化) = -6.89、 K_d = 約 $1\mu M$ 以下を化合物選定の基準とし、この基準値より高い結合性を有する化合物1000個をリガンド候補とした。

【0122】

vii) ファーマコフォア定義における重要な残基の探索

ターゲットであるCAP-Gly様ドメインタンパク質の構造座標情報から、Dock付属のプログラムSPHGENによりターゲット表面にスフィアと呼ばれる球状のプローブを生成し、HPD残基より4Å以内のものを選択することにより、ファーマコフォア定義における重要なアミノ酸 (Val26, Lys27, Glu47, Arg67, Lys83, Ser86) を求めた。

【0123】

viii) 本発明のタンパク質の培養細胞への遺伝子導入

配列番号3に記載のアミノ酸配列を含むKIAA0849由来の遺伝子断片(アミノ酸414-558相当)の遺伝子導入を、PolyFect Transfection Reagent (QIAGEN社)を用い、QIAGEN社が至適な条件として公知しているプロトコールに従って行った。該遺伝子を導入する培養細胞は、293 (human, kidney)細胞、Hela (human, Cervix)細胞を用いた。それぞれの細胞を96穴のマイクロタイタープレート中に各穴500、2500、5000個ずつ播き、6-12時間の前培養を行った。そして、pEXP 26改変ベクター (Gateway system, Clontech社) に組み込んだ該遺伝子のプラスミドDNAをPolyFect Transfection Reagentと混和し、室温で10分間の反応させた後、培地に添加した。遺伝子導入は24時間 (293細胞は12時間) 後に培地交換を行うことにより完了とした。

【0124】

<細胞増殖の測定>

細胞増殖は遺伝子導入完了の48時間後に生細胞数を測定することから行った。試薬は、細胞内において脱水素酵素により還元され、水溶性ホルマザンを生成するテトラゾリウム塩WST-8 (2-(2-methoxy-4-nitrophenyl)-3-(4-nitrophenyl)-5-(2,4-disulfophenyl)-2H-tetrazolium, monosodium salt) (生細胞数測定試薬SF, 07553-44, ナカライテスク社, 特願平8-121134)を用いた。この水溶性ホルマザン量は生細胞数と直線的な比例関係にあることが知られており、マイクロプレートリーダー (ARVOsx 1420, Wallac社) により450 nmの吸光度を測定し、対照である650 nmの吸光度を減じた値を生細胞数として評価した。この結果を図8

に示す。

【0125】

【発明の効果】

以上説明したように、本発明のドメインタンパク質は生理的に意味のある構造を有し、タンパク質の分子機能を有していることから、このドメインタンパク質は相互作用する生理活性物質のスクリーニングに用いることができる。また、本発明のドメインタンパク質の立体構造解析を行うことにより、該ドメインに作用する化合物をコンピュータ上で探索・設計できることとなった。

また、ウェット実験での化合物の探索においても、本発明のドメインタンパク質は特定の分子機能のみを有するタンパク質の最小カセットであり、余分なタンパク質構造の影響を受けることなく、効率よく活性化合物のスクリーニングができることとなった。

これらの結果により本ドメインタンパク質及び／又は本ドメインタンパク質を含んだ天然のタンパク質と相互作用する化合物をスクリーニングすることができる。

したがって、本発明によるドメインタンパク質を提供することで、タンパク質の構造—機能解析を基礎としたゲノム創薬を効果的に行うことができる。

【0126】

【配列表】

SEQUENCE LISTING

<110> RIKEN

<120> Polypeptide which composes human domain and the use thereof

<130> P02-0086

<140>

<141>

<160> 22

<170> PatentIn Ver. 2.1

<210> 1

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1

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1 5 10 15

Ala Glu Val Lys Glu Asn Pro Pro Phe Tyr Gly Val Ile Arg Trp Ile
20 25 30

Gly Gln Pro Pro Gly Leu Asn Glu Val Leu Ala Gly Leu Glu Leu Glu
35 40 45

Asp Glu Cys Ala Gly Cys Thr Asp Gly Thr Phe Arg Gly Thr Arg Tyr
50 55 60

Phe Thr Cys Ala Leu Lys Lys Ala Leu Phe Val Lys Leu Lys Ser Cys
65 70 75 80

Arg Pro Asp Ser Arg Phe Ala Ser Leu Gln Pro
85 90

<210> 2

<211> 273

<212> DNA

<213> Homo sapiens

<400> 2

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gtgctcgctg gactggaact ggaagatgag tgtgcaggct gtacggatgg gaccttcaga 180
ggcactcggg atttcacctg tgccctgaag aaggcgctgt ttgtgaaact gaagagctgc 240
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```

<210> 3

<211> 145

<212> PRT

<213> Homo sapiens

<400> 3

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Leu Thr Thr Glu Asn Arg Phe His Ser Leu Pro Phe Ser Leu Thr Lys
  1              5              10              15

```

```

Met Pro Asn Thr Asn Gly Ser Ile Gly His Ser Pro Leu Ser Leu Ser
          20              25              30

```

```

Ala Gln Ser Val Met Glu Glu Leu Asn Thr Ala Pro Val Gln Glu Ser
          35              40              45

```

Pro Pro Leu Ala Met Pro Pro Gly Asn Ser His Gly Leu Glu Val Gly
50 55 60

Ser Leu Ala Glu Val Lys Glu Asn Pro Pro Phe Tyr Gly Val Ile Arg
65 70 75 80

Trp Ile Gly Gln Pro Pro Gly Leu Asn Glu Val Leu Ala Gly Leu Glu
85 90 95

Leu Glu Asp Glu Cys Ala Gly Cys Thr Asp Gly Thr Phe Arg Gly Thr
100 105 110

Arg Tyr Phe Thr Cys Ala Leu Lys Lys Ala Leu Phe Val Lys Leu Lys
115 120 125

Ser Cys Arg Pro Asp Ser Arg Phe Ala Ser Leu Gln Pro Val Ser Asn
130 135 140

Gln
145

<210> 4

<211> 435

<212> DNA

<213> Homo sapiens

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aacactgcac ccgtccaaga gagtccaccc ttggccatgc ctcctgggaa ctcacatggg 180
ctagaagtgg gctcattggc tgaagttaag gagaaccctc ctttctatgg ggtaatccgt 240
tggatcggtc agccaccagg actgaatgaa gtgctcgctg gactggaact ggaagatgag 300
tgtgcaggct gtacggatgg aaccttcaga ggcactcggt atttcacctg tgccctgaag 360
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5

<210> 5

<211> 101

<212> PRT

<213> Homo sapiens

<400> 5

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1

5

10

15

Asn Ser His Gly Leu Glu Val Gly Ser Leu Ala Glu Val Lys Glu Asn

20

25

30

Pro Pro Phe Tyr Gly Val Ile Arg Trp Ile Gly Gln Pro Pro Gly Leu

35

40

45

Asn Glu Val Leu Ala Gly Leu Glu Leu Glu Asp Glu Cys Ala Gly Cys

50

55

60

Thr Asp Gly Thr Phe Arg Gly Thr Arg Tyr Phe Thr Cys Ala Leu Lys

65 70 75 80

Lys Ala Leu Phe Val Lys Leu Lys Ser Cys Arg Pro Asp Ser Arg Phe

85 90 95

Ala Ser Leu Gln Pro

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<211> 303

<212> DNA

<213> Homo sapiens

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tggatcggtc agccaccagg actgaatgaa gtgctcgctg gactggaact ggaagatgag 180
tgtgcaggct gtacggatgg aaccttcaga ggcaactcgt atttcacctg tgccctgaag 240
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ccg
303

<210> 7

<211> 106

<212> PRT

<213> Homo sapiens

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Asn Ser His Gly Leu Glu Val Gly Ser Leu Ala Glu Val Lys Glu Asn

20 25 30

Pro Pro Phe Tyr Gly Val Ile Arg Trp Ile Gly Gln Pro Pro Gly Leu

35 40 45

Asn Glu Val Leu Ala Gly Leu Glu Leu Glu Asp Glu Cys Ala Gly Cys

50 55 60

Thr Asp Gly Thr Phe Arg Gly Thr Arg Tyr Phe Thr Cys Ala Leu Lys

65 70 75 80

Lys Ala Leu Phe Val Lys Leu Lys Ser Cys Arg Pro Asp Ser Arg Phe

85 90 95

Ala Ser Leu Gln Pro Val Ser Asn Gln Ile

100 105

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<211> 318

<212> DNA

<213> Homo sapiens

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tggatcggtc agccaccagg actgaatgaa gtgctcgctg gactggaact ggaagatgag 180
tgtgcaggct gtacggatgg aaccttcaga ggcactcggt atttcacctg tgccctgaag 240
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ccggtttcca atcagatt 31

8

<210> 9

<211> 96

<212> PRT

<213> Homo sapiens

<400> 9

Leu Ala Met Pro Pro Gly Asn Ser His Gly Leu Glu Val Gly Ser Leu

1 5 10 15

Ala Glu Val Lys Glu Asn Pro Pro Phe Tyr Gly Val Ile Arg Trp Ile

20 25 30

Gly Gln Pro Pro Gly Leu Asn Glu Val Leu Ala Gly Leu Glu Leu Glu

35 40 45

Asp Glu Cys Ala Gly Cys Thr Asp Gly Thr Phe Arg Gly Thr Arg Tyr

50 55 60

Phe Thr Cys Ala Leu Lys Lys Ala Leu Phe Val Lys Leu Lys Ser Cys

65 70 75 80

Arg Pro Asp Ser Arg Phe Ala Ser Leu Gln Pro Val Ser Asn Gln Ile
85 90 95

<210> 10

<211> 288

<212> DNA

<213> Homo sapiens

<400> 10

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gtgctcgctg gactggaact ggaagatgag tgtgcaggct gtacggatgg aaccttcaga 180
ggcactcggg atttcacctg tgccctgaag aaggcgctgt ttgtgaaact gaagagctgc 240
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<211> 40

<212> DNA

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Description of Artificial Sequence: Primer

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<211> 45

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

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<210> 13

<211> 124

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

<400> 13

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ttaactttaa gaaggagata tacatatgca ccatcatcat catcatctgg tgccacgcgg 120
atcc

124

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<211> 66

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

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66

<210> 15

<211> 33

<212> DNA

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<223> Description of Artificial Sequence: Primer

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<210> 16

<211> 33

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

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33

<210> 17

<211> 34

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

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<210> 18

<211> 36

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

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36

<210> 19

<211> 227

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 19

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gaaggagata tacatatgaa aggcagcagc catcatcatc atcatcacga ttacgatatc 180
ccaacgaccg aaaacctgta ttttcaggga tccagcggct cctcggg 227

<210> 20

<211> 187

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

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aataactagc ataaccctt ggggcctcta aacgggtctt gaggggtttt ttgctgaaag 120

gaggaactat atccggataa cctcgagctg caggcatgca agcttggcga agcacaatga 180

caagagc

187

<210> 21

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 21

gctcttgatca ttgtgcttcg

20

<210> 22

<211> 104

<212> PRT

<213> Homo sapiens

<400> 22

Gly Ser Ser Gly Ser Ser Gly Leu Ala Met Pro Pro Gly Asn Ser His

1

5

10

15

Gly Leu Glu Val Gly Ser Leu Ala Glu Val Lys Glu Asn Pro Pro Phe

20

25

30

Tyr Gly Val Ile Arg Trp Ile Gly Gln Pro Pro Gly Leu Asn Glu Val
 35 40 45

Leu Ala Gly Leu Glu Leu Glu Asp Glu Cys Ala Gly Cys Thr Asp Gly
 50 55 60

Thr Phe Arg Gly Thr Arg Tyr Phe Thr Cys Ala Leu Lys Lys Ala Leu
 65 70 75 80

Phe Val Lys Leu Lys Ser Cys Arg Pro Asp Ser Arg Phe Ala Ser Leu
 85 90 95

Gln Pro Ser Gly Pro Ser Ser Gly
 100

【図面の簡単な説明】

【図 1】 図中のAは配列番号 1 に記載されたタンパク質、Bは配列番号 3 に記載されたタンパク質、Cは配列番号 5 に記載されたタンパク質、Dは配列番号 7 に記載されたタンパク質、Eは配列番号 9 に記載されたタンパク質の発現をそれぞれ SDS ゲル電気泳動で見たものである。第 1 レーンは上清、第 2 レーンは精製時の目的フラクションを含むタンパク質、Mはマーカーレーンを表す。

【図 2】 図中のAは、比較例 1 におけるポリペプチド a、Bは比較例 2 におけるポリペプチド b、Cは比較例 3 におけるポリペプチド c の発現状態を SDS ゲル電気泳動で見た図である。第 1 レーンは生成物全体、第 2 レーンは上清、Mはマーカーレーンを表す。

【図 3】 配列番号 3 に記載されたタンパク質の 1 次元核磁気共鳴スペクトルと ^1H - ^{15}N HSQC スペクトルを示す。

【図 4】 配列番号 1 に記載されたタンパク質の 1 次元核磁気共鳴スペクトルと ^1H - ^{15}N HSQC スペクトルを示す。

【図 5】 配列番号 5 に記載されたタンパク質の1次元核磁気共鳴スペクトルと ^1H
- ^{15}N HSQCスペクトルを示す。

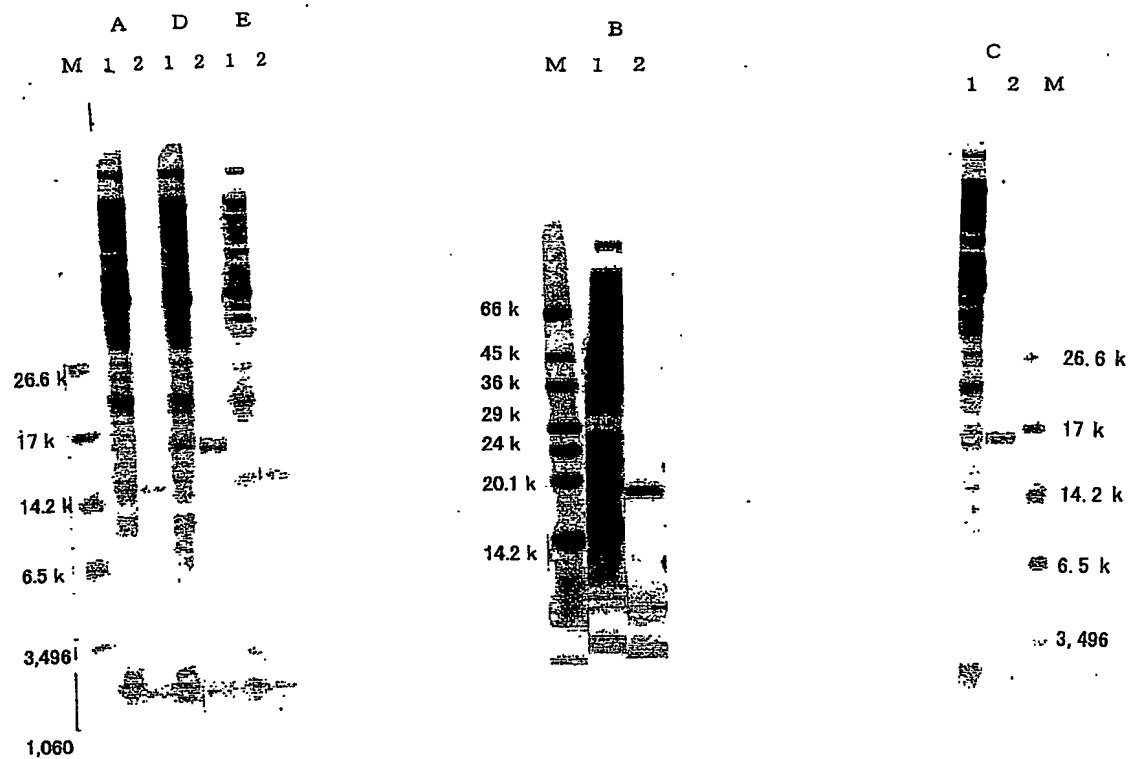
【図 6】 配列番号 7 に記載されたタンパク質の1次元核磁気共鳴スペクトルと ^1H
- ^{15}N HSQCスペクトルを示す。

【図 7】 配列番号 9 に記載されたタンパク質の1次元核磁気共鳴スペクトルと ^1H
- ^{15}N HSQCスペクトルを示す。

【図 8】 H e l a 細胞増殖試験の結果を示す。

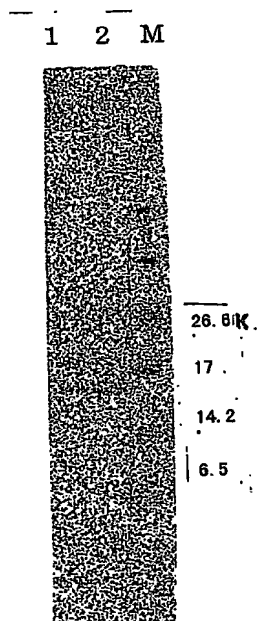
【書類名】 図面

【図 1】

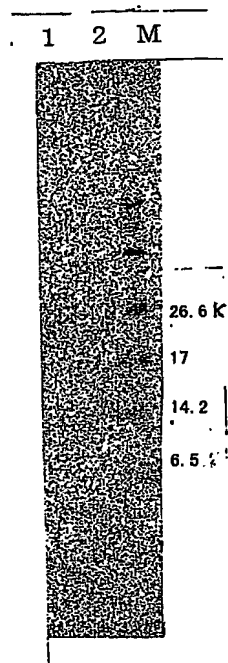


【図 2】

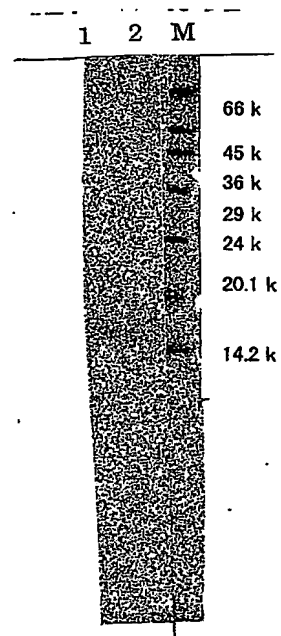
A



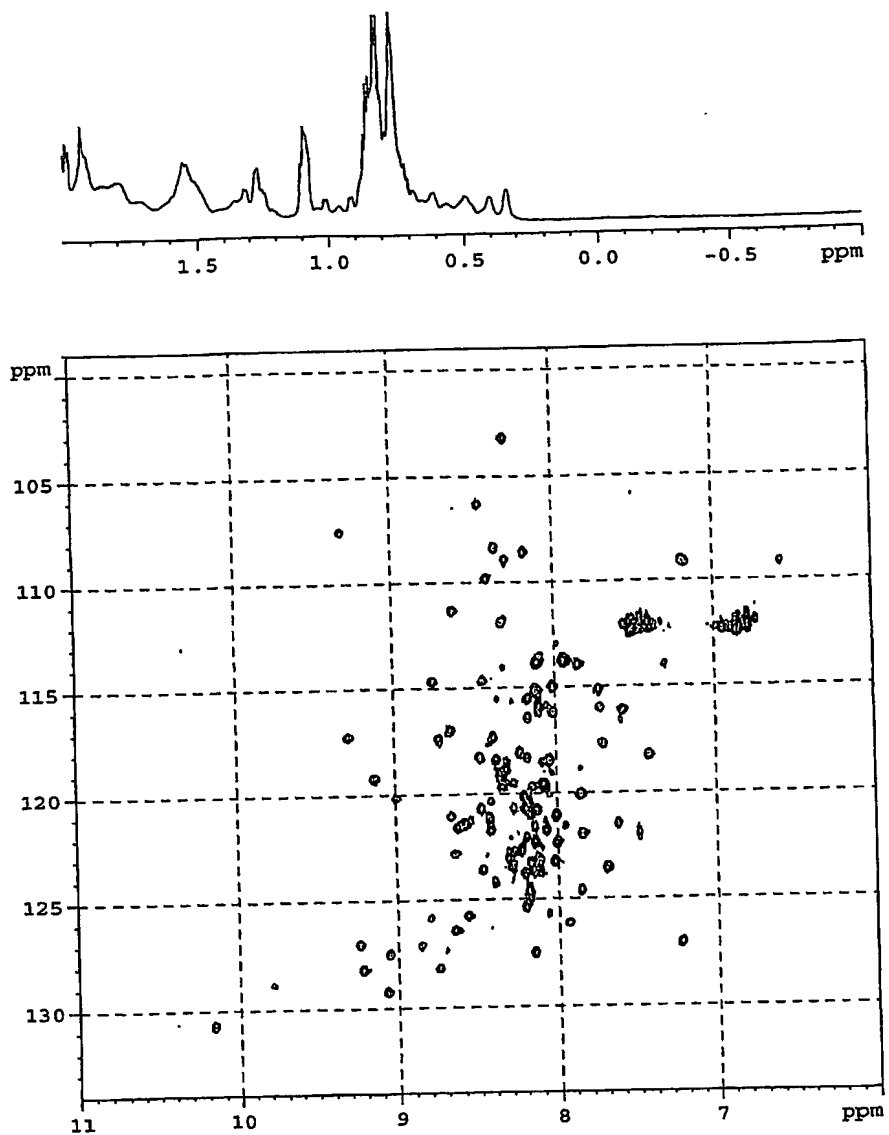
B



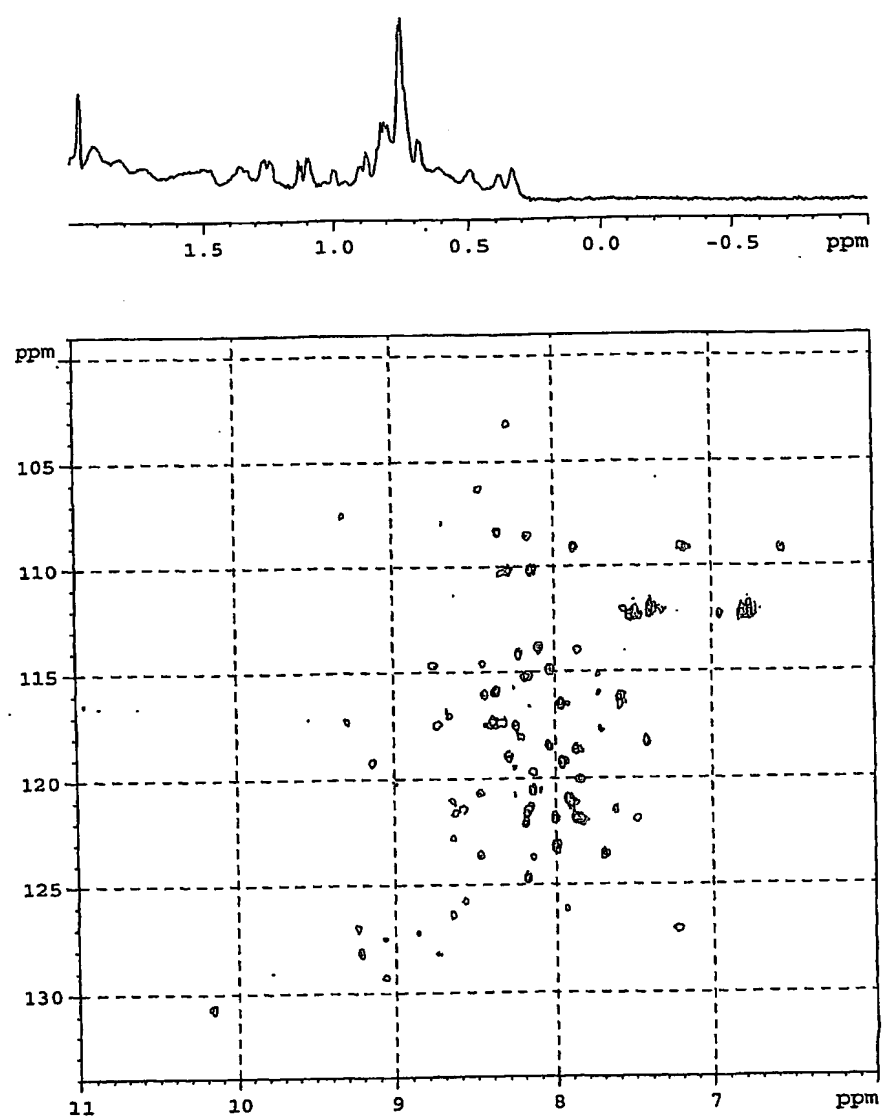
C



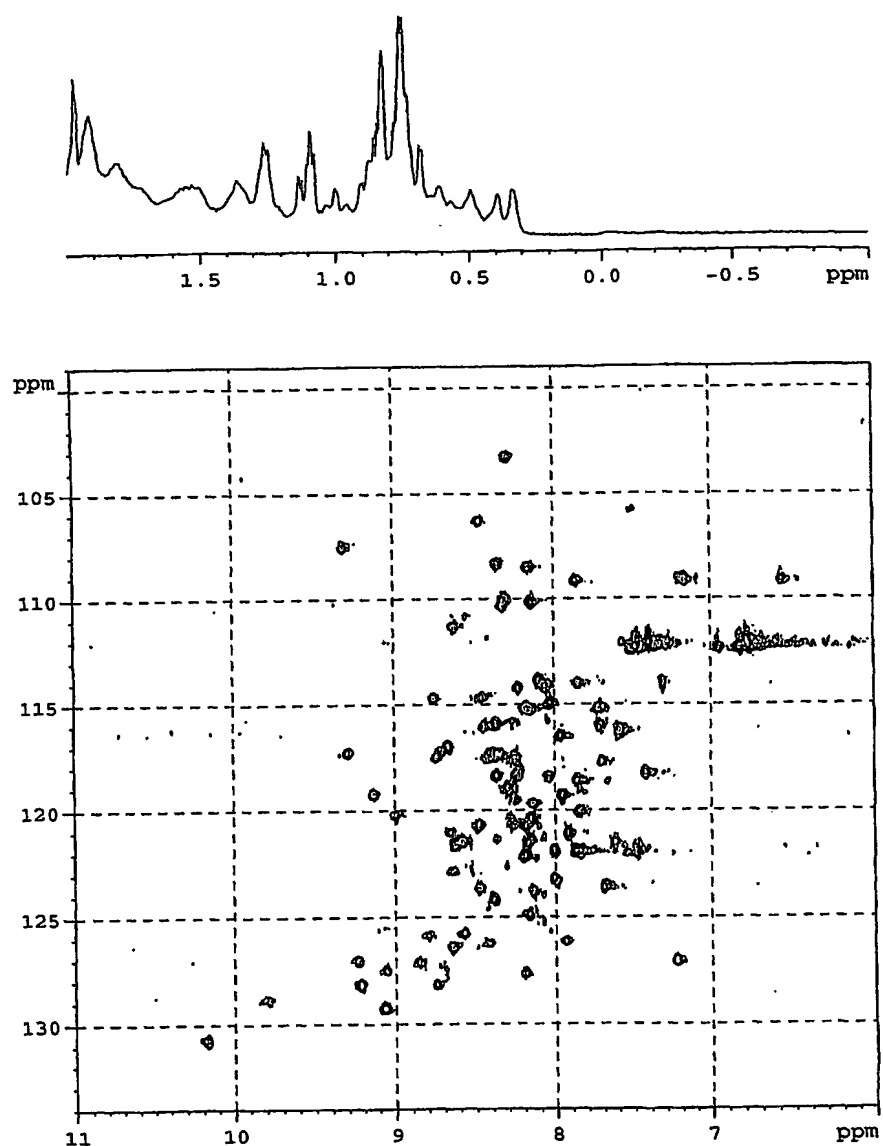
【図 3】



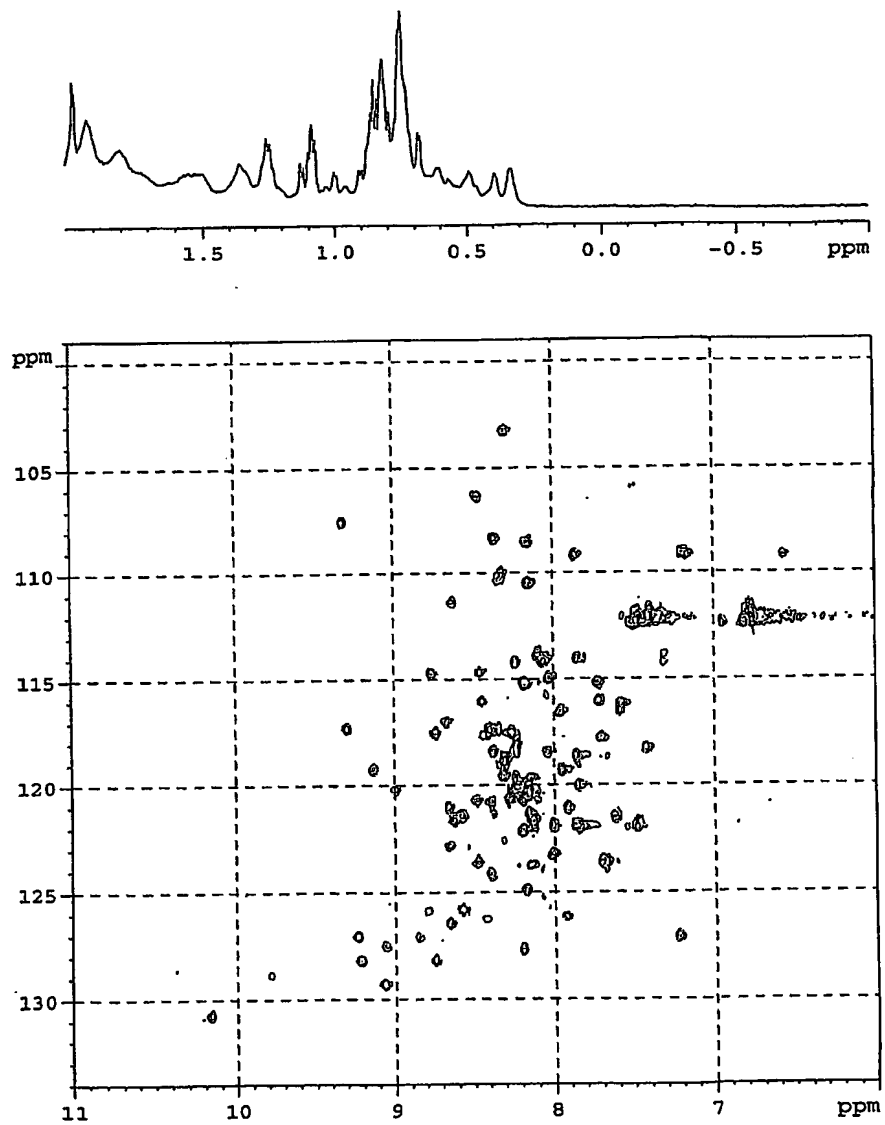
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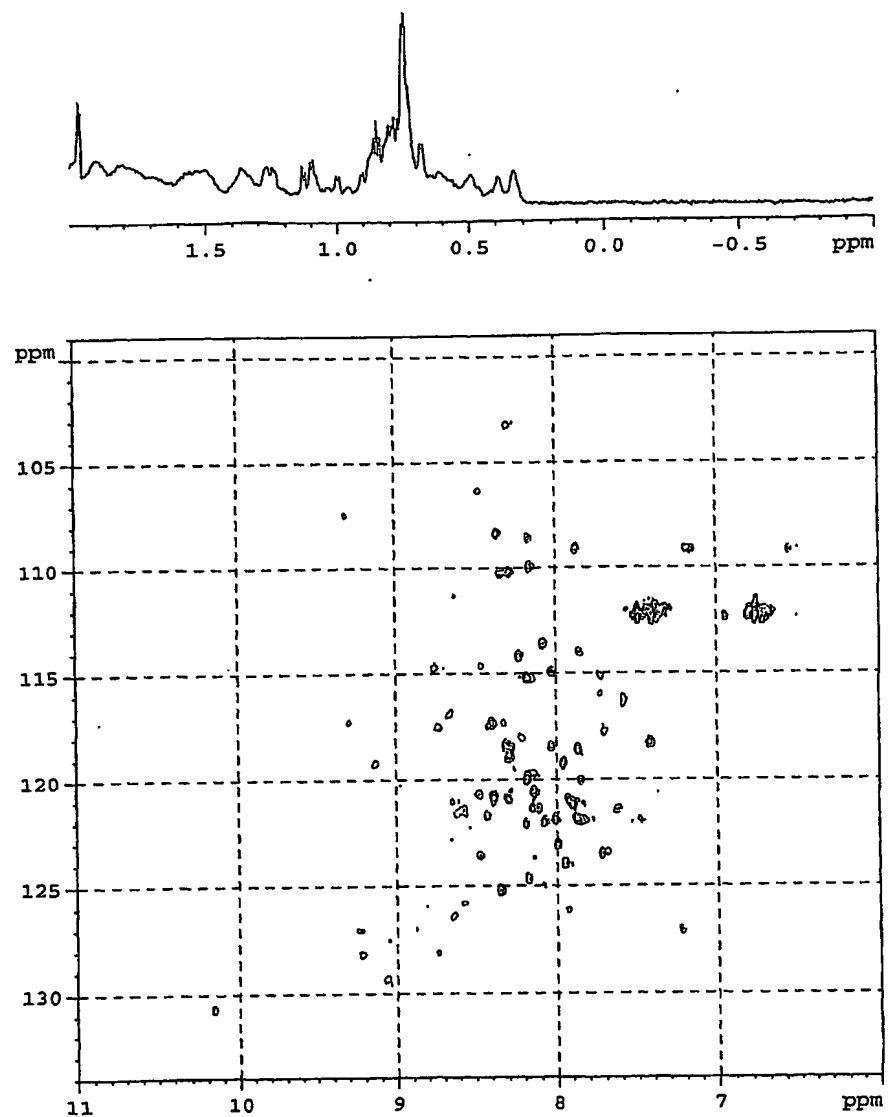
【図 5】



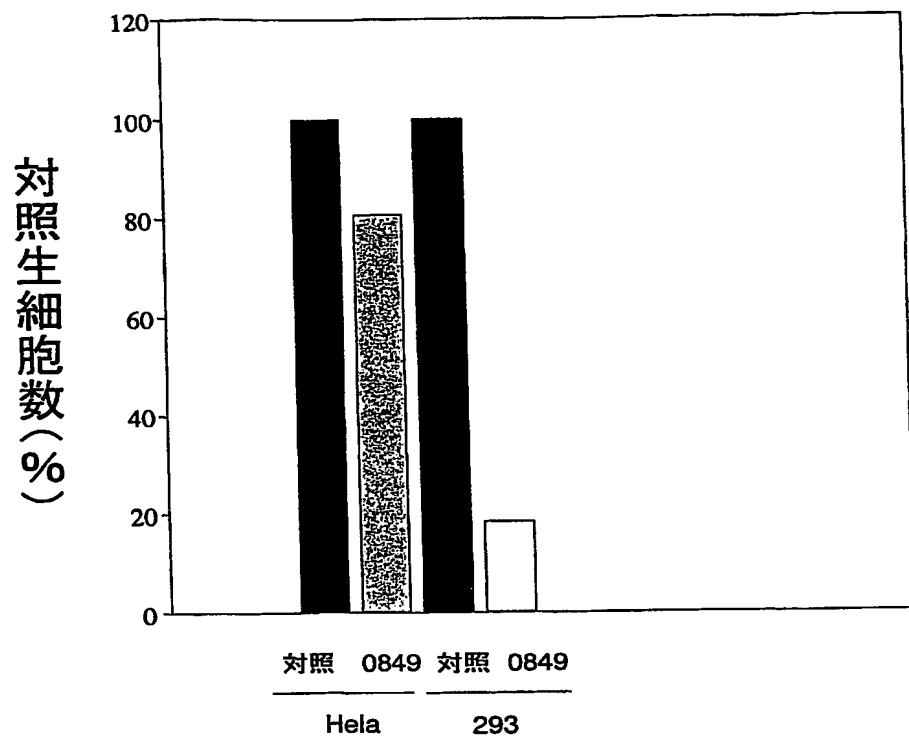
【図6】



【図 7】



【図 8】



【書類名】 要約書

【課題】

立体構造の解析に意味のあるドメインを形成するCAP-Gly様ドメインを形成するタンパク質およびその構造情報などを提供する。

【解決手段】

(1) 配列番号1に記載されたアミノ酸配列からなるタンパク質又はその塩、(2) 配列番号3、5、7、9のいずれか一つに記載されたアミノ酸配列からなるタンパク質又はそれらの塩、(3) 配列番号7に記載されたアミノ酸配列のN末端から0個～10個のアミノ酸残基が欠損し、更にC末端から0個～5個のアミノ酸残基が欠損したアミノ酸配列を有し、アミノ酸残基数が92～106であるタンパク質又はそれらの塩、(4) (1)、(2)又は(3)に記載のタンパク質のアミノ酸配列において、1若しくは数個のアミノ酸が欠失、置換又は付加されたアミノ酸配列からなり、(1)、(2)又は(3)に記載のタンパク質と実質的に同一の機能を有するタンパク質又はそれらの塩、それらの製造方法、それらをコードするポリヌクレオチド、それらのタンパク質に対する抗体、それらを用いるスクリーニング方法、それらの立体構造を用いたスクリーニング方法など。

【選択図】 図8

特願 2002-236129

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1. 変更年月日

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住 所

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